


Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A, B, C, D)				
1	26_270 Mathematics  1667	Rational Numbers	How many whole numbers are there between 1 lakh and 1 crore (excluding both)?		C				
						<b>Answer Options</b>			
						Option A	Option B	Option C	Option D
9000000	9900000	9899999	10000000						
2	26_270 Mathematics  1668	Rational Numbers	Which of the following is equal to $13^2$ ?		B				
						<b>Answer Options</b>			
						Option A	Option B	Option C	Option D
$13^7/13^6$	$13^6/13^4$	$12^2+1^2$	$13^3/13^5$						
3	29_270 Mathematics  11373	Rational Numbers	9.03 divided by 899.8 is closest to		A				
						<b>Answer Options</b>			
						Option A	Option B	Option C	Option D
0.01	0.001	1	100						
4	19_269 Mathematics  2731	Rational Numbers	What do you get on adding the smallest 2-digit positive integer and the smallest 2-digit negative integer?		C				
						<b>Answer Options</b>			
						Option A	Option B	Option C	Option D

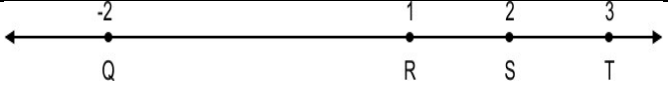
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Answer Options																	
Option A	Option B	Option C	Option D														
0	-20	-89	-109														
5	19_269 Mathematics 2748	Rational Numbers	p and q are two numbers such that $p \times q$ is an integer but $p - q$ is NOT an integer. Which of the following could be the values of p and q?		D												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr> <tr><td>-4, 4</td><td>4, 4</td><td>1/4, 1/4</td><td>4, 1/4</td></tr> </table>				Answer Options				Option A	Option B	Option C	Option D	-4, 4	4, 4	1/4, 1/4	4, 1/4
Answer Options																	
Option A	Option B	Option C	Option D														
-4, 4	4, 4	1/4, 1/4	4, 1/4														
6	27_270 Mathematics 8383	Rational Numbers	What is the number midway between 12345 and 54321?		C												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr> <tr><td>20988</td><td>32423</td><td>33333</td><td>41976</td></tr> </table>				Answer Options				Option A	Option B	Option C	Option D	20988	32423	33333	41976
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Option A	Option B	Option C	Option D														
20988	32423	33333	41976														
7	27_270 Mathematics 8387	Rational Numbers	Which of the following is closest to 0.1?		A												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr> <tr><td>0.09</td><td>0.12</td><td>1</td><td>1/5</td></tr> </table>				Answer Options				Option A	Option B	Option C	Option D	0.09	0.12	1	1/5
Answer Options																	
Option A	Option B	Option C	Option D														
0.09	0.12	1	1/5														
8	27_270 Mathematics 8390	Rational Numbers	For what value of k is the expression undefined?	$\frac{k - 5}{k + 3}$	C												

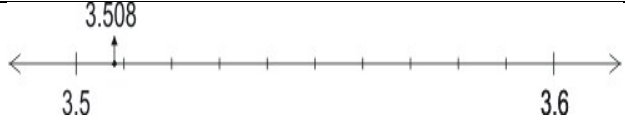
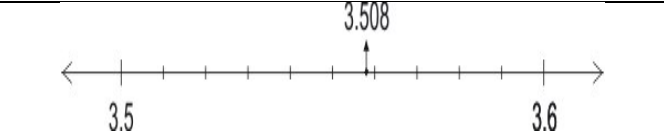

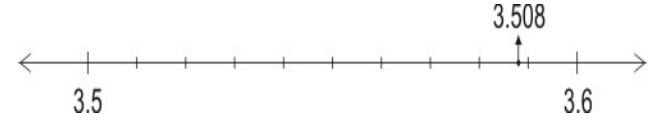
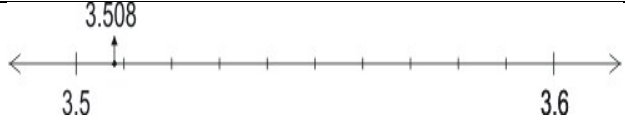
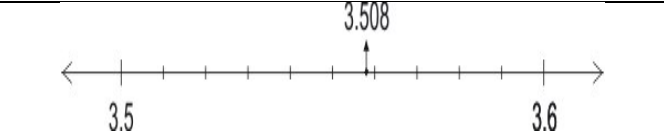

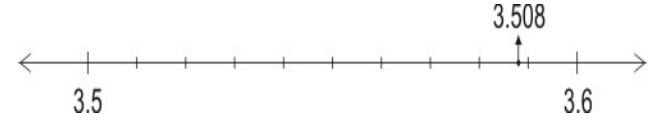
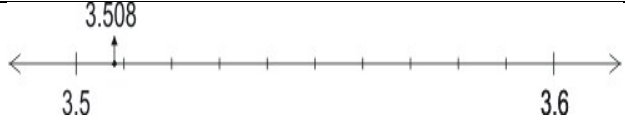
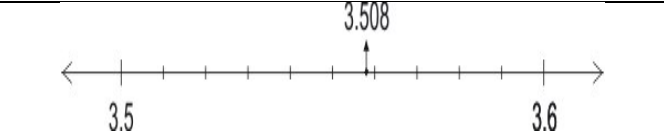

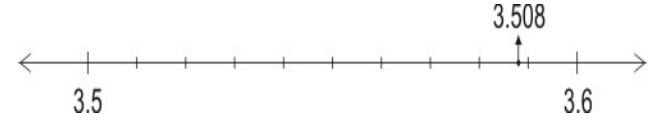
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Answer Options																	
Option A	Option B	Option C	Option D														
0	3	-3	5														
9	27_270 Mathematics 8393	Rational Numbers	An operation is defined as follows: For what values of x and y is $x \blacktriangle y = 6$ ?	$x \blacktriangle y = \frac{(x+y)}{y}$	C												
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Answer Options																	
Option A	Option B	Option C	Option D														
6 and 1 respectively	6 and 30 respectively	35 and 7 respectively	9 and 18 respectively														
10	27_270 Mathematics 8394	Rational Numbers	In which of the following cases will the result be a negative number?		D												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr> <tr><td>- 1 + 2 - 3 + 4 - ..... - 19 + 20</td><td>(- 1) x (-2) x (-3) x ..... x (-19) x (-20)</td><td>(- 1) x (2) x (-3) x (4).....x (-19) x (20)</td><td>1 - 2 + 3 - 4 -.....+ 19 - 20</td></tr> </table>				Answer Options				Option A	Option B	Option C	Option D	- 1 + 2 - 3 + 4 - ..... - 19 + 20	(- 1) x (-2) x (-3) x ..... x (-19) x (-20)	(- 1) x (2) x (-3) x (4).....x (-19) x (20)	1 - 2 + 3 - 4 -.....+ 19 - 20
Answer Options																	
Option A	Option B	Option C	Option D														
- 1 + 2 - 3 + 4 - ..... - 19 + 20	(- 1) x (-2) x (-3) x ..... x (-19) x (-20)	(- 1) x (2) x (-3) x (4).....x (-19) x (20)	1 - 2 + 3 - 4 -.....+ 19 - 20														
11	28_270 Mathematics 10033	Rational Numbers	A pizza is divided into equal slices as shown. What part of the pizza below would remain if you ate two of the slices?		C												
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Answer Options																	
Option A	Option B	Option C	Option D														
0.4	0.6	0.667	0.775														
12	28_270 Mathematics 10038	Rational Numbers	Numbers that can be written in the form $\frac{m}{n}$ are integers and is not equal to 0 are called rational numbers. Which of the numbers in the list below are rational numbers? $\frac{12}{5}$ , 12.5, 12		D												

		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>12 and 12/5</td> <td>Only 12/5</td> <td>Only 12</td> <td>All of them</td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D	12 and 12/5	Only 12/5	Only 12	All of them
Answer Options																	
Option A	Option B	Option C	Option D														
12 and 12/5	Only 12/5	Only 12	All of them														
13	28_270 Mathematics 10040	Rational Numbers	Two numbers whose sum is 0 are called 'opposite' numbers. According to this, what number would be the 'opposite' of $-2x$		A												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>2x</math></td> <td><math>-2</math></td> <td><math>2</math></td> <td><math>2 + x</math></td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D	$2x$	$-2$	$2$	$2 + x$
Answer Options																	
Option A	Option B	Option C	Option D														
$2x$	$-2$	$2$	$2 + x$														
14	29_270 Mathematics 11367	Rational Numbers	The integer that is 25 more than $(-435)$ is		C												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">Answer Options</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>-450</math></td> <td><math>-460</math></td> <td><math>-410</math></td> <td><math>460</math></td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D	$-450$	$-460$	$-410$	$460$
Answer Options																	
Option A	Option B	Option C	Option D														
$-450$	$-460$	$-410$	$460$														
15	29-270 Mathematics 11368	Rational Numbers	$c$ and $d$ are two integers. Which of the following MUST BE TRUE if $(-3d) \div c$ is to be a rational number?		D												
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Answer Options																	
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$d$ should be a positive number.	$d$ and $c$ should be of opposite signs.	$d$ should be completely divisible by $c$ .	$c$ should not be 0.														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	2_10 Mathematics 5846	RATIONAL NUMBERS	Mr. Shah, an industrialist, is estimated to have assets worth Rs. 5.2 crores. Which of these could be the actual value of his assets?		D
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		Rs. 52,07,900	Rs. 50,29,790	Rs. 5,02,56,770	Rs. 5,23,45,990
2	2_11 MATHEMATICS 5321	Comparing Quantities	Mr. Kaul deposits a fixed amount of money for a 5 year period. Some details of the account (Interest compounded annually) are given below: Principal on which interest is computed for		C

			<p>the first year : Rs 40000          .Interest earned for the first year : Rs 2000          Interest earned for the second year : Rs 2100          Interest earned for the third year : Rs 2205          The amount (Principal) on which the interest for the fourth year will be calculated is</p>			
		<b>Answer Options</b>				
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>	
		2,205	40,000	46,305	46,615	
3	<b>2_10 Mathematics 5858</b>	RATIONAL NUMBERS	6789678967896789 ÷ 6789 is equal to			C
		<b>Answers option</b>				
		Option A	Option B	Option C	Option D	
		1111	10101	1000100010001	1000100010001000	
4	<b>2_10 Mathematics</b>	RATIONAL NUMBERS	Point M (not shown) on the number line is MORE than 4 units			C

	5873	away from point Q and LESS than 1 unit away from point S. Where does point M lie?															
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <td>Option A</td> <td>Option B</td> <td>Option C</td> <td>Option D</td> </tr> <tr> <td>Between Q and R</td> <td>Between R and S</td> <td>Between S and T</td> <td>To the right of T</td> </tr> </table>					Answers option				Option A	Option B	Option C	Option D	Between Q and R	Between R and S	Between S and T	To the right of T	
Answers option																	
Option A	Option B	Option C	Option D														
Between Q and R	Between R and S	Between S and T	To the right of T														
5	2_10 Mathematics 5878	RATIONAL NUMBERS	Which of these is true for any non-zero rational number p?		B												
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <td>Option A</td> <td>Option B</td> <td>Option C</td> <td>Option D</td> </tr> <tr> <td><math>p \times (-p) = 1</math></td> <td><math>(-p) \div p = -1</math></td> <td><math>p - (-p) = 0</math></td> <td><math>-1/p = p</math></td> </tr> </table>						Answers option				Option A	Option B	Option C	Option D	$p \times (-p) = 1$	$(-p) \div p = -1$	$p - (-p) = 0$	$-1/p = p$
Answers option																	
Option A	Option B	Option C	Option D														
$p \times (-p) = 1$	$(-p) \div p = -1$	$p - (-p) = 0$	$-1/p = p$														
6	3_18 Mathematics 3346	RATIONAL NUMBERS	The integer that is 25 more than (-435) is		C												
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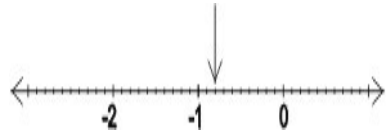
7	<p align="center"><b>3_18 Mathematics 3353</b></p>	RATIONAL NUMBERS	<p>Any number that can be written in the form <math>\frac{x}{y}</math> (where <math>x, y</math> are integers and <math>y \neq 0</math>) is a rational number.</p> <p>Which of the following is NOT a rational number?</p>		C																				
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Answers option																									
Option A	Option B	Option C	Option D																						
2.353535....	$-\frac{1}{4}$	$\frac{3}{0}$	7																						
8	<p align="center"><b>3_18 Mathematics 3354</b></p>	RATIONAL NUMBERS	<p>On which number line is the position of 3.508 shown most accurately?</p>		A																				
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th colspan="2">Option A</th> <th colspan="2">Option B</th> </tr> <tr> <td colspan="2">  </td> <td colspan="2">  </td> </tr> <tr> <th colspan="2">Option C</th> <th colspan="2">Option D</th> </tr> <tr> <td colspan="2">  </td> <td colspan="2">  </td> </tr> </table>						Answers option				Option A		Option B						Option C		Option D					
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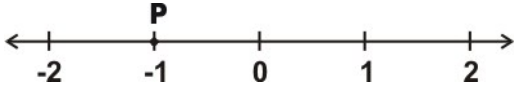
9	<b>3_18 Mathematics 3363</b>	RATIONAL NUMBERS	A pair of rational numbers, when MULTIPLIED, gives the answer as (-1). The numbers could be		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
(-p) and p		(-p) and (-1)	(-p) and 1	(-p) and 1/p	
10	<b>3_18 Mathematics 3377</b>	RATIONAL NUMBERS	A new operation $\star$ is defined as follows: $p \star q = 2q - p$ for all rational numbers p and q. According to this, what will be the value of $5 \star 1$ ?	$\star$	B

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Answers option																	
Option A	Option B	Option C	Option D														
-8	-3	8	9														
11	1_4 Mathematics 7585	RATIONAL NUMBERS	c and d are two integers. Which of the following MUST BE TRUE if $(-3d) \div c$ is to be a rational number?		D												
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Option A	Option B	Option C	Option D														
d should be a positive number.	d and c should be of opposite signs.	d should be completely divisible by c.	c should not be 0.														
12	1_4 Mathematics 7587	RATIONAL NUMBERS	<input type="checkbox"/> represents a number such that $-\frac{5}{6} \times \square = 1$  Which of the following statements about <input type="checkbox"/> is <u>NOT</u> true?		A												

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Answers option																	
Option A	Option B	Option C	Option D														
$\square \div \frac{5}{6} = 1$	$\square < -\frac{5}{6}$	$\frac{6}{5} - \square = 0$	$\square$ lies between -1 and -2														
13	<b>1_2 Mathematics 6891</b>	RATIONAL NUMBER	What is one crore, two lakhs and three thousand PLUS twenty seven lakhs, forty three thousand and twenty one?		B												
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Answers option																	
Option A	Option B	Option C	Option D														
2866021	12946021	14746021	14773021														
14	<b>1_2 Mathematics 6892</b>	RATIONAL NUMBERS	<p>0, 1, 2, 3, 4... are called Whole Numbers.</p> <p>x and y are two numbers which satisfy ALL these conditions:  (x + y) is a whole number,  (x - y) is not a whole number and  xy is not a whole number</p> <p>Which of the following COULD BE values of x and y?</p>		C												

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Answers option																	
Option A	Option B	Option C	Option D														
$x = 3, y = 2$	$x = 6, y = 8$	$x = 4.6, y = 6.4$	$x = 1.3, y = 6.3$														
15	<p>1_2 Mathematics 6893</p>	RATIONAL NUMBERS	Which rational number does the pointer on the number line show?		D												
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> </thead> <tbody> <tr> <td>Option A</td> <td>Option B</td> <td>Option C</td> <td>Option D</td> </tr> <tr> <td>-1.2</td> <td>-0.4</td> <td>1.2</td> <td>-0.8</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	-1.2	-0.4	1.2	-0.8
Answers option																	
Option A	Option B	Option C	Option D														
-1.2	-0.4	1.2	-0.8														


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	1_2 Mathematics 6895	RATIONAL NUMBERS	Which is the largest negative integer having 4 digits?		A
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		-1000	-9999	-1023	-1111
2	1_2 Mathematics 6927	RATIONAL NUMBERS	x and y are two rational numbers. If $x + y < 5$ and $3 < x < 5$ , which of the following values can y have		C
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		$\frac{8}{3}$	2	0	3
3	2_11 Mathematics 4420	RATIONAL NUMBERS	$(-7) - ? = 14$		D
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		-7	7	21	-21

4	2_11 Mathematics 4422	RATIONAL NUMBERS	A number line is shown below with a point P marked on it:  Which of the following points will be the furthest from P when marked on the number line?		D												
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>-\frac{1}{5}</math></td> <td><math>\frac{1}{4}</math></td> <td><math>-\frac{8}{7}</math></td> <td><math>-\frac{1}{3}</math></td> </tr> </table>						Answers option				Option A	Option B	Option C	Option D	$-\frac{1}{5}$	$\frac{1}{4}$	$-\frac{8}{7}$	$-\frac{1}{3}$
Answers option																	
Option A	Option B	Option C	Option D														
$-\frac{1}{5}$	$\frac{1}{4}$	$-\frac{8}{7}$	$-\frac{1}{3}$														
5	2_11 Mathematics 5279	RATIONAL NUMBERS	Which of the following lists has numbers arranged in INCREASING order?		D												
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>-\frac{1}{8}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{8}</math></td> <td><math>-\frac{1}{7}, -\frac{1}{8}, \frac{1}{7}, \frac{1}{8}</math></td> <td><math>-\frac{1}{8}, -\frac{1}{7}, \frac{1}{8}, \frac{1}{7}</math></td> <td><math>-\frac{1}{7}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{7}</math></td> </tr> </table>						Answers option				Option A	Option B	Option C	Option D	$-\frac{1}{8}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{8}$	$-\frac{1}{7}, -\frac{1}{8}, \frac{1}{7}, \frac{1}{8}$	$-\frac{1}{8}, -\frac{1}{7}, \frac{1}{8}, \frac{1}{7}$	$-\frac{1}{7}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{7}$
Answers option																	
Option A	Option B	Option C	Option D														
$-\frac{1}{8}, -\frac{1}{7}, \frac{1}{7}, \frac{1}{8}$	$-\frac{1}{7}, -\frac{1}{8}, \frac{1}{7}, \frac{1}{8}$	$-\frac{1}{8}, -\frac{1}{7}, \frac{1}{8}, \frac{1}{7}$	$-\frac{1}{7}, -\frac{1}{8}, \frac{1}{8}, \frac{1}{7}$														
6	2_11 Mathematics 5280	RATIONAL NUMBERS	9.03 ÷ 899.8 is closest to		A												

		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>0.01</td> <td>0.001</td> <td>1</td> <td>100</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	0.01	0.001	1	100
Answers option																	
Option A	Option B	Option C	Option D														
0.01	0.001	1	100														
7	2_11 Mathematics 5284	RATIONAL NUMBERS	What is $7799 \div 19$ ?		D												
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>Quotient = 41, Remainder = 0</td> <td>Quotient = 41, Remainder = 9</td> <td>Quotient = 41.4, Remainder = 14</td> <td>Quotient = 410, Remainder = 9</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	Quotient = 41, Remainder = 0	Quotient = 41, Remainder = 9	Quotient = 41.4, Remainder = 14	Quotient = 410, Remainder = 9
Answers option																	
Option A	Option B	Option C	Option D														
Quotient = 41, Remainder = 0	Quotient = 41, Remainder = 9	Quotient = 41.4, Remainder = 14	Quotient = 410, Remainder = 9														
8	2_11 Mathematics 4436	RATIONAL NUMBERS	(As you know, $\frac{1}{3}$ , 0.5, 0 and -10 are examples of rational numbers.)....  Which is the SMALLEST POSITIVE rational number?		D												
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0.1</td> <td>1</td> <td>There is no such number.</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	0	0.1	1	There is no such number.
Answers option																	
Option A	Option B	Option C	Option D														
0	0.1	1	There is no such number.														
9	2_11 Mathematics 4442	RATIONAL NUMBERS	x and y are two numbers such that $0 < x < 1$ and $1 < y < 2$ . Which of the following COULD be an integer?		A												

		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>x + y</math></td> <td><math>y - 1</math></td> <td><math>x + 2</math></td> <td>Y</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	$x + y$	$y - 1$	$x + 2$	Y
Answers option																	
Option A	Option B	Option C	Option D														
$x + y$	$y - 1$	$x + 2$	Y														
10	<p><b>2_11 Mathematics 5256</b></p>	<p>RATIONAL NUMBERS</p> <p>0, 1, 2, 3, 4... are called Whole Numbers. x and y are two numbers which satisfy ALL these conditions: (x + y) is a whole number, (x - y) is not a whole number and xy is not a whole number</p> <p>Which of the following COULD BE values of x and y?</p>			C												
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>x = 3, y = 2</math></td> <td><math>x = 6, y = 8</math></td> <td><math>x = 4.6, y = 6.4</math></td> <td><math>x = 1.3, y = 6.3</math></td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	$x = 3, y = 2$	$x = 6, y = 8$	$x = 4.6, y = 6.4$	$x = 1.3, y = 6.3$
Answers option																	
Option A	Option B	Option C	Option D														
$x = 3, y = 2$	$x = 6, y = 8$	$x = 4.6, y = 6.4$	$x = 1.3, y = 6.3$														
11	<p><b>2_11 Mathematics 5258</b></p>	<p>RATIONAL NUMBERS</p> <p>The sum of two numbers is -6.5 and their difference is 4.5. What are the numbers?</p>			C												
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>-1.25 and -5.25</td> <td>1.25 and -5.25</td> <td>-1 and -5.5</td> <td>1 and -7.5</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	-1.25 and -5.25	1.25 and -5.25	-1 and -5.5	1 and -7.5
Answers option																	
Option A	Option B	Option C	Option D														
-1.25 and -5.25	1.25 and -5.25	-1 and -5.5	1 and -7.5														



12	5_26 1669	Rational numbers	For what numbers N will the statement $N/4 < 23$ be true?		D												
<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="4"><b>Answer Options</b></td> </tr> <tr> <td>Option A</td> <td>Option B</td> <td>Option C</td> <td>Option D</td> </tr> <tr> <td>All numbers</td> <td>All numbers greater than 5</td> <td>All numbers greater than 91</td> <td>All numbers less than 92</td> </tr> </table>						<b>Answer Options</b>				Option A	Option B	Option C	Option D	All numbers	All numbers greater than 5	All numbers greater than 91	All numbers less than 92
<b>Answer Options</b>																	
Option A	Option B	Option C	Option D														
All numbers	All numbers greater than 5	All numbers greater than 91	All numbers less than 92														
13	2_11 MATHEMATICS 4485	Comparing Quantities	<p>Look at this tube of Glow Face cream being sold under a special offer:</p> <p>How many grams of cream does the tube contain?</p>		D												
<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="4"><b>Answer Options</b></td> </tr> <tr> <td>Option A</td> <td>Option B</td> <td>Option C</td> <td>Option D</td> </tr> <tr> <td>30</td> <td>37.5</td> <td>120</td> <td>150</td> </tr> </table>						<b>Answer Options</b>				Option A	Option B	Option C	Option D	30	37.5	120	150
<b>Answer Options</b>																	
Option A	Option B	Option C	Option D														
30	37.5	120	150														
14	2_11 MATHEMATICS 5310	Comparing Quantities	Anjana has 4 pencils in her box. Their average length is 10 cm. Which of the following is NOT POSSIBLE?		B												

		<b>Answer Options</b>			
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
		The shortest pencil in the box is 2 cm long.	The longest pencil in the box is 8 cm long.	Two of the pencils are 10 cm each.	All the pencils are of the same length.
15	<b>2_11 MATHEMATICS 5326</b>	Comparing Quantities	<p>Ayub drops a ball from a height of 6.25 metres to the flat ground below. After the third bounce, the ball rises to a height of 40 cm.</p> <p>The height to which the ball rises after each bounce is the <b>SAME FRACTION</b> of the height reached on its <b>PREVIOUS BOUNCE</b>. What is the fraction?</p>		
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
		$\frac{1}{2}$	$\frac{2}{5}$	$\frac{5}{8}$	$\frac{39}{125}$


**Set-4**

Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A,B,C,D)												
1	5_27 8421	Rational Numbers	<p>At this point, P starts running at 5 m/sec while L continues to run at 4 m/sec. In how many seconds will P just catch up with L?</p> <p>Six people - K, L, M, N, O and P are in a race. Their relative positions in the race at a particular instant are described below. Answer the question based on this. K is 10 metres behind L, L is 25 metres ahead of M, M is 5 metres behind O and N is 15 metres ahead of K. P is midway between K and L.</p>		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4"><b>AnswerOptions</b></th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">9</td> </tr> </tbody> </table>						<b>AnswerOptions</b>				Option A	Option B	Option C	Option D	1	4	5	9
<b>AnswerOptions</b>																	
Option A	Option B	Option C	Option D														
1	4	5	9														
2	5_27 8420	Rational Numbers	<p>Starting with the one who is first, what is their order at this point?</p> <p>Six people - K, L, M, N, O and P are in a race. Their relative positions in the race at a particular instant are described below. Answer the question based on this : K is 10 metres behind L, L is 25 metres ahead of M, M is 5 metres behind O and N is 15 metres ahead of K. P is midway between K and L.</p>		D												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4"><b>AnswerOptions</b></th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">L-P- N- K- O- M</td> <td style="text-align: center;">N- L- K- P- M- O</td> <td style="text-align: center;">L- N- P- O- K- M</td> <td style="text-align: center;">N- L- P- K- O- M</td> </tr> </tbody> </table>						<b>AnswerOptions</b>				Option A	Option B	Option C	Option D	L-P- N- K- O- M	N- L- K- P- M- O	L- N- P- O- K- M	N- L- P- K- O- M
<b>AnswerOptions</b>																	
Option A	Option B	Option C	Option D														
L-P- N- K- O- M	N- L- K- P- M- O	L- N- P- O- K- M	N- L- P- K- O- M														

3	28_270 Mathematics 10067	Linear equations in one variables	In a magic square, the sum of every row, column and diagonal is the same. Shown below is a 3 x 3 magic square: What is the value of $10x$ ?	<table border="1"> <tbody> <tr> <td><math>x</math></td> <td><math>x-5</math></td> <td>8</td> </tr> <tr> <td><math>x+1</math></td> <td><math>y</math></td> <td><math>y-2</math></td> </tr> <tr> <td>2</td> <td>9</td> <td>4</td> </tr> </tbody> </table>	$x$	$x-5$	8	$x+1$	$y$	$y-2$	2	9	4	A	
		$x$	$x-5$	8											
$x+1$	$y$	$y-2$													
2	9	4													
<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>60</td> <td>40</td> <td>30</td> <td>10</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	60	40	30	10
AnswerOptions															
Option A	Option B	Option C	Option D												
60	40	30	10												
4	5_27 8405	Linear Equation in one variable	Vaishali saves Rs. 35 every week to buy a game costing Rs. 510. Which expression below shows the amount left for her to save after $n$ weeks?		C										
		<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>(510 - 35)n</math></td> <td><math>35n - 510</math></td> <td><math>510 - 35n</math></td> <td><math>(510 + 35)n</math></td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$(510 - 35)n$	$35n - 510$
AnswerOptions															
Option A	Option B	Option C	Option D												
$(510 - 35)n$	$35n - 510$	$510 - 35n$	$(510 + 35)n$												
5	5_2 9 Mathematics 11374	Linear equation in one variable	The ratio of Neha's age to that of Jane is 4:7 and the ratio of Jane's age to that of Smita is 4:3. If Smita is 21 years old, how old is Neha?		B										
		<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>16</td> <td>21</td> <td>28</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	4	16
AnswerOptions															
Option A	Option B	Option C	Option D												
4	16	21	28												
6	2_10 Mathematics 5852	LINEAR EQUATIONS IN ONE VARIABLE	The angles of a triangle are in the ratio 2 : 5 : 2. What kind of triangle will it be?		B										

		<table border="1"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>Right angled, Isosceles</td> <td>Obtuse angled, Isosceles</td> <td>Obtuse angled, Scalene</td> <td>Acute angled, may be isosceles or scalene</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	Right angled, Isosceles	Obtuse angled, Isosceles	Obtuse angled, Scalene	Acute angled, may be isosceles or scalene
AnswerOptions																	
Option A	Option B	Option C	Option D														
Right angled, Isosceles	Obtuse angled, Isosceles	Obtuse angled, Scalene	Acute angled, may be isosceles or scalene														
7	2_10 Mathematics 5864	LINEAR EQUATIONS IN ONE VARIABLE	$(1 + \frac{3}{4}) \times k = 1$ Here k stands for the rational number, Then value of k is ?		D												
		<table border="1"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>4/3</td> <td>-3/4</td> <td>3/1</td> <td>4/7</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	4/3	-3/4	3/1	4/7
AnswerOptions																	
Option A	Option B	Option C	Option D														
4/3	-3/4	3/1	4/7														
8	3_18 Mathematics 3367	LINEAR EQUATION IN ONE VARIABLE	The number of pencils in Ketan's box is 6 more than the number of rulers in it. If the number of pencils in his box is P and the number of rulers R, which of the following is true?		A												
		<table border="1"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>R + 6 = P</math></td> <td><math>P + 6 = R</math></td> <td><math>6R = P</math></td> <td><math>6P = R</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$R + 6 = P$	$P + 6 = R$	$6R = P$	$6P = R$
AnswerOptions																	
Option A	Option B	Option C	Option D														
$R + 6 = P$	$P + 6 = R$	$6R = P$	$6P = R$														
9	1_4 Mathematics 7603	LINEAR EQUATION IN ONE VARIABLE	Which of the following could be the correct relation between x and y?	<table border="1"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>y</td> <td>1</td> <td>5</td> <td>9</td> <td>13</td> </tr> </table>	x	1	2	3	4	y	1	5	9	13	D		
x	1	2	3	4													
y	1	5	9	13													

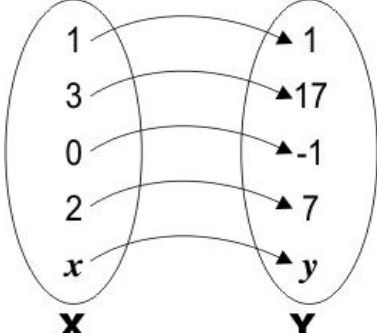
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>y = 2x + 1</math></td> <td><math>y = 2x - 1</math></td> <td><math>y = 3x - 2</math></td> <td><math>y = 4x - 3</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$y = 2x + 1$	$y = 2x - 1$	$y = 3x - 2$	$y = 4x - 3$
AnswerOptions																	
Option A	Option B	Option C	Option D														
$y = 2x + 1$	$y = 2x - 1$	$y = 3x - 2$	$y = 4x - 3$														
10	<b>1_4</b> <b>Mathematics</b> <b>7606</b>	LINEAR EQUATION IN ONE VARIABLE While solving an equation of the form $x + m = n$ (where $m$ and $n$ are constants), Ranjana made a mistake and added $m$ to $n$ instead of subtracting it. By how much would her answer differ from the correct one?		A													
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>2m</math></td> <td><math>m + n</math></td> <td><math>m - n</math></td> <td><math>n - m</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$2m$	$m + n$	$m - n$	$n - m$
AnswerOptions																	
Option A	Option B	Option C	Option D														
$2m$	$m + n$	$m - n$	$n - m$														
11	<b>2_11</b> <b>Mathematics</b> <b>4439</b>	LINEAR EQUATION IN ONE VARIABLE Hema has weighing scales with a removable pan. One day, she adjusts it as shown below and then weighs a bag of flour:  How much did the bag of flour weigh?		B													
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>1 kg 50 g</td> <td>1 kg 400 g</td> <td>1 kg 500 g</td> <td>1 kg 600 g</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	1 kg 50 g	1 kg 400 g	1 kg 500 g	1 kg 600 g
AnswerOptions																	
Option A	Option B	Option C	Option D														
1 kg 50 g	1 kg 400 g	1 kg 500 g	1 kg 600 g														
12	<b>2_11</b> <b>Mathematics</b> <b>4440</b>	LINEAR EQUATION IN ONE VARIABLE On being asked her age, Shalu replies, 'My brother was born 2 years before me and my sister 4 years after me and the sum of their ages is 30 years.' How old is Shalu?		C													
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>12 years</td> <td>14 years</td> <td>16 years</td> <td>can't say</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	12 years	14 years	16 years	can't say
AnswerOptions																	
Option A	Option B	Option C	Option D														
12 years	14 years	16 years	can't say														

13	2_11 Mathematics 4452	LINEAR EQUATION IN ONE VARIABLE	By how much will the sum of the numbers in the 20th row exceed the sum of the numbers in the 15th?	<table border="1"> <tbody> <tr> <td>1st Row →</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>2nd Row →</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>3rd Row →</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td>...</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>...</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	1st Row →	1	2	3	4	5	2nd Row →	6	7	8	9	10	3rd Row →	11	12	13	14	15	...	16	17	18	19	20	...	21	22	23	24	25													D
1st Row →	1	2	3	4	5																																										
2nd Row →	6	7	8	9	10																																										
3rd Row →	11	12	13	14	15																																										
...	16	17	18	19	20																																										
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Option A	Option B	Option C	Option D																																												
5	25	75	125																																												
14	27_270 Mathematics 8410	Linear equations in one variables	Akhil's office in a high-rise building was on a floor that had as many floors above it as below. One day, he went up 7 floors from his office, then down 4 floors and finally up 9 floors. If he was at the top floor now, how many floors did the building have in all?		D																																										
<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>53</td> <td>41</td> <td>39</td> <td>25</td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	53	41	39	25																														
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Option A	Option B	Option C	Option D																																												
53	41	39	25																																												
15	28_270 Mathematics 10044	Linear equations in one variables	Five numbers, when arranged in ascending order, form a series in which the difference between each number and the number next to it is 7. If 8 and 36 are two of those numbers, which one of the following could be one of the other three numbers?		C																																										
<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>27</td> <td>29</td> <td>35</td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	14	27	29	35																														
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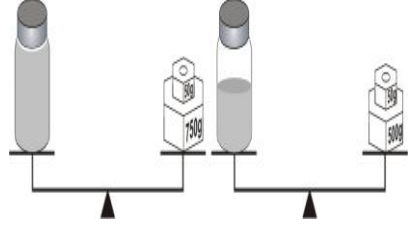
### Set-5

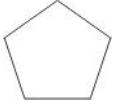



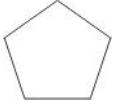



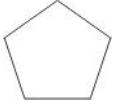



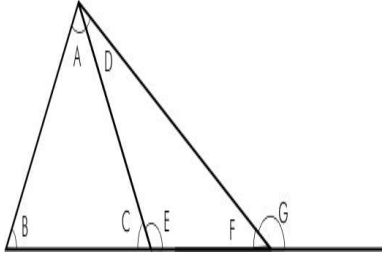
Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A,B,C,D)										
1	19_269 Mathematics 2735	Linear equations in one variables	50% of 25% of a number p is equal to		C										
						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td>half of p</td> <td>one-fourth of p</td> <td>one-eighth of p</td> <td>three-fourth of p</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B
AnswerOptions															
Option A	Option B	Option C	Option D												
half of p	one-fourth of p	one-eighth of p	three-fourth of p												
2	27_270 Mathematics 8396	Linear equations in one variables	What should be added to the product of x and 2 to get x?		A										
						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td>-x</td> <td><math>x^2 + x</math></td> <td>2x</td> <td><math>x - x^2</math></td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B
AnswerOptions															
Option A	Option B	Option C	Option D												
-x	$x^2 + x$	2x	$x - x^2$												
3	26_270 Mathematics 1701	Linear equations in one variables	How many consecutive odd numbers starting from 1, have to be added to get 64?		D										
						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td>five</td> <td>six</td> <td>seven</td> <td>eight</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B
AnswerOptions															
Option A	Option B	Option C	Option D												
five	six	seven	eight												



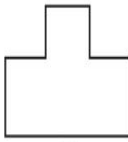
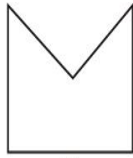
4	26_270 Mathematics 1694	Linear equations in one variables	If $x + 5$ is a number that is completely divisible by 13, which of those numbers will be completely divisible by 26?		B												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>x+26</math></td> <td><math>2x+36</math></td> <td><math>2x+5</math></td> <td><math>2x+13</math></td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	$x+26$	$2x+36$	$2x+5$	$2x+13$
AnswerOptions																	
Option A	Option B	Option C	Option D														
$x+26$	$2x+36$	$2x+5$	$2x+13$														
5	19_269 Mathematics 2741	Linear equations in one variables	If $p / 2 = 4$ and $2 - q = 4$ , what is the value of $2p + q$ ?		B												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>14</td> <td>18</td> <td>22</td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	12	14	18	22
AnswerOptions																	
Option A	Option B	Option C	Option D														
12	14	18	22														
6	19_269 Mathematics 2739	Linear equations in one variables	Urmil looked at his watch and said, The number of hours that are left today is exactly one-seventh of the number of hours that have already passed. What time was Urmil's watch showing?"		D												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>7:00 AM</td> <td>6:30 PM</td> <td>7:00 PM</td> <td>9:00 PM</td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	7:00 AM	6:30 PM	7:00 PM	9:00 PM
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Option A	Option B	Option C	Option D														
7:00 AM	6:30 PM	7:00 PM	9:00 PM														
7	27_270 Mathematics 8409	Linear equations in two variables	There is a certain relation between the corresponding members of X and Y in the following figure. Which of the following equations describes the relation correctly?		D												

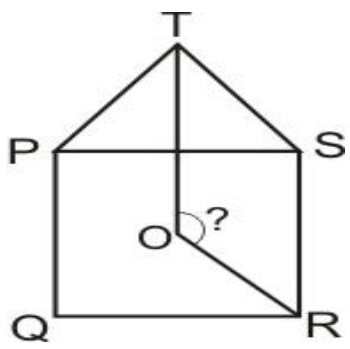

		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>x = y + 1</math></td> <td><math>y = 2x - 1</math></td> <td><math>x = 2y - 1</math></td> <td><math>y = 2x^2 - 1</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$x = y + 1$	$y = 2x - 1$	$x = 2y - 1$	$y = 2x^2 - 1$																		
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8	19_269 Mathematics 2734	Linear equations in two variables	For which of these values of x and y is $2x - 3y = 3x - 2y$ ?		A																														
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>x = 1, y = -1</math></td> <td><math>x = 2, y = 0</math></td> <td><math>x = 0, y = 1</math></td> <td><math>x = 1, y = 1</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$x = 1, y = -1$	$x = 2, y = 0$	$x = 0, y = 1$	$x = 1, y = 1$																		
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$x = 1, y = -1$	$x = 2, y = 0$	$x = 0, y = 1$	$x = 1, y = 1$																																
9	5_26 1691	Linear Equation	<p>If the relationship between z and y is that <math>z = 3 + y</math>, then what number should appear in cell C2?</p> <p>Study the paragraph and spreadsheet given below to answer the question.</p> <p>While working on a spreadsheet, Praveen gives the heading <math>x^x</math> to column A and enters some values under it. In the corresponding cells of column B, he enters a formula and gets these values:</p>	<table border="1" style="width: 100%; text-align: center;"> <tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th></tr> <tr><th>1</th><td>x</td><td>y</td><td>z</td><td></td></tr> <tr><th>2</th><td>2</td><td>-1</td><td></td><td></td></tr> <tr><th>3</th><td>-3</td><td>-11</td><td></td><td></td></tr> <tr><th>4</th><td>5</td><td>5</td><td></td><td></td></tr> <tr><th>5</th><td>0</td><td>-5</td><td></td><td></td></tr> </table>		A	B	C	D	1	x	y	z		2	2	-1			3	-3	-11			4	5	5			5	0	-5			B
	A	B	C	D																															
1	x	y	z																																
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AnswerOptions																																			
Option A	Option B	Option C	Option D																																
5	2	-2	-4																																
10	19_269 Mathematics 2756	Linear equations in two variables	Ratnam hired a car from a car renting agency which charges a flat amount of Rs x for travelling up to 40 kilometres and Rs. y per km for every kilometre travelled thereafter. How much should Ratnam pay		A																														

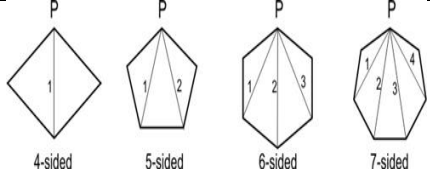
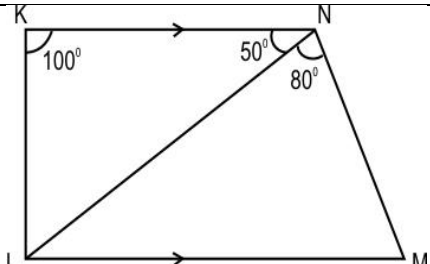
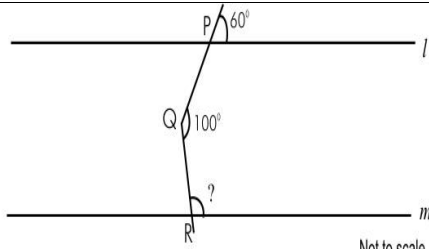
			the agency for a journey of 50 kilometres?		
<b>AnswerOptions</b>					
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>	
Rs (x + 10y)		Rs 50(x + y)		Rs (40 x + y)	
<b>Option D</b>					
Rs 50xy					
11	19_269 Mathematics 2757	Linear equations in two variables	The weight of a bottle of jam when it is FULL and when it is HALF full is shown below. What is the weight of the empty bottle?		C
<b>AnswerOptions</b>					
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>	
1/2 kg		350 g		300 g	
<b>Option D</b>					
250 g					
12	19_269 Mathematics 2759	Linear equations in two variables	A train runs once a week from Delhi to Mumbai and back. It started from Delhi at 9 PM on 16th May, and returned after completing the to and fro journey in a total of 52 hours. What was the date and time when the train returned to Delhi after its journey?		D
<b>AnswerOptions</b>					
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>	
18th May, 1 PM		18th May, 1 AM		19th May, 9 PM	
<b>Option D</b>					
19th May, 1 AM					
13	26_270 Mathematics 1674	Linear equations in two variables	In the simplified form of which of these expressions will there be no xy term?		D

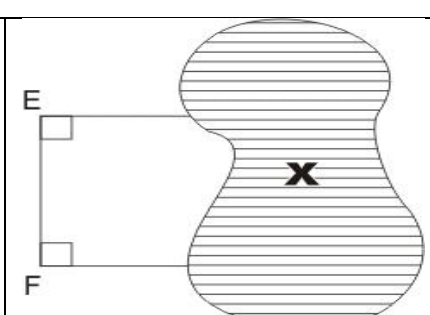
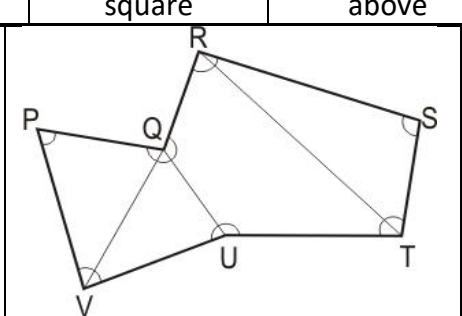
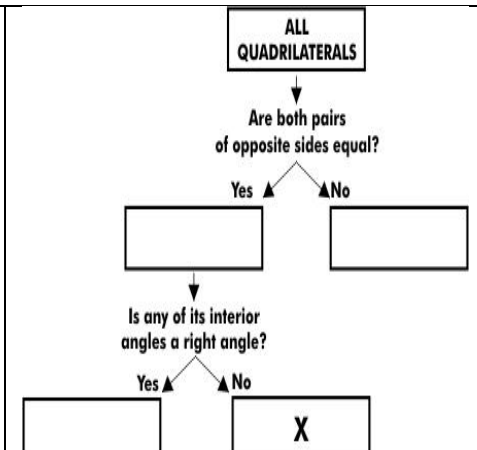
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>(3x - 4y)^2</math></td> <td><math>(3x)(4y)</math></td> <td><math>3x + 4y(3x - 4y)</math></td> <td><math>(3x - 4y)(4y + 3x)</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$(3x - 4y)^2$	$(3x)(4y)$	$3x + 4y(3x - 4y)$	$(3x - 4y)(4y + 3x)$
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$(3x - 4y)^2$	$(3x)(4y)$	$3x + 4y(3x - 4y)$	$(3x - 4y)(4y + 3x)$														
14	<b>2_11</b> Mathematics 5262	Understanding Quadrilateral	Which of the following will have 20 diagonals if the number of diagonals of an 'n' sided polygon is $\frac{n(n-3)}{2}$ ?		D												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D				
AnswerOptions																	
Option A	Option B	Option C	Option D														
																	
15	<b>2_11</b> Mathematics 5271	Understanding Quadrilateral	In the above figure, which of these will NOT equal $180^\circ$ ?		D												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>\angle A + \angle B + \angle C</math></td> <td><math>\angle F + \angle G</math></td> <td><math>\angle A + \angle B + \angle D + \angle F</math></td> <td><math>\angle A + \angle B + \angle E</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	$\angle A + \angle B + \angle C$	$\angle F + \angle G$	$\angle A + \angle B + \angle D + \angle F$	$\angle A + \angle B + \angle E$
AnswerOptions																	
Option A	Option B	Option C	Option D														
$\angle A + \angle B + \angle C$	$\angle F + \angle G$	$\angle A + \angle B + \angle D + \angle F$	$\angle A + \angle B + \angle E$														

**Set-6**

Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A,B,C,D)												
1	<b>2_11 Mathematics 4421</b>	Understanding Quadrilateral	If the measure of one angle of an isosceles triangle is $40^\circ$ , another angle of the triangle CANNOT measure		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;"><b>AnswerOptions</b></th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><math>40^\circ</math></td> <td style="text-align: center;"><math>70^\circ</math></td> <td style="text-align: center;"><math>80^\circ</math></td> <td style="text-align: center;"><math>100^\circ</math></td> </tr> </tbody> </table>						<b>AnswerOptions</b>				Option A	Option B	Option C	Option D	$40^\circ$	$70^\circ$	$80^\circ$	$100^\circ$
<b>AnswerOptions</b>																	
Option A	Option B	Option C	Option D														
$40^\circ$	$70^\circ$	$80^\circ$	$100^\circ$														
2	<b>2_11 Mathematics 4424</b>	Understanding Quadrilateral	<p>Kusum drew <math>m</math> figures like P on a page 1 and figure Q on page 2.</p> <p>Compared to page 2, how many more straight lines are there on page 1</p>	 <div style="display: inline-block; margin: 0 20px;">  </div>	D												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;"><b>AnswerOptions</b></th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">3m</td> <td style="text-align: center;"><math>8m - 1</math></td> <td style="text-align: center;"><math>8m - 5</math></td> </tr> </tbody> </table>						<b>AnswerOptions</b>				Option A	Option B	Option C	Option D	3	3m	$8m - 1$	$8m - 5$
<b>AnswerOptions</b>																	
Option A	Option B	Option C	Option D														
3	3m	$8m - 1$	$8m - 5$														
3	<b>2_11 Mathematics 5290</b>	Understanding Quadrilateral	The roads connecting the houses of Ravi, Sunil, Kapil and Roger form a quadrilateral as shown here. Let us refer to the quadrilateral as KLMN. It is not known which corner is K, which is L, etc.		A												

		<p>It is known that <math>\angle K</math></p> <p>+ <math>\angle M &gt; 180^\circ</math> and that <math>\angle L</math> is not the smallest angle of the quadrilateral.</p>														
<table border="1"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>Ravi</td> <td>Sunil</td> <td>Kapil</td> <td>Roger</td> </tr> </table>					AnswerOptions				Option A	Option B	Option C	Option D	Ravi	Sunil	Kapil	Roger
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4	<p><b>2_11</b> <b>Mathematics</b> <b>4448</b></p>	<p>Understanding Quadrilateral</p> <p>In the figure shown below, PQRS is a square and TPS is an equilateral triangle. The bisectors of angle PTS and angle QRS meet at point O.</p> <p>What is the measure of angle TOR?</p>		A												
<table border="1"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>135^\circ</math></td> <td><math>140^\circ</math></td> <td><math>145^\circ</math></td> <td><math>150^\circ</math></td> </tr> </table>					AnswerOptions				Option A	Option B	Option C	Option D	$135^\circ$	$140^\circ$	$145^\circ$	$150^\circ$
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5	<p><b>2_11</b> <b>Mathematics</b> <b>4450</b></p>	<p>Understanding Quadrilateral</p> <p>Venu has a rectangular sheet of cardboard:</p> <p>With a single straight cut, he cuts the rectangular sheet into two pieces.</p> <p>The total number of corners on the two resulting pieces COULD be</p>		C												

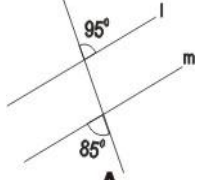
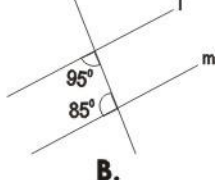

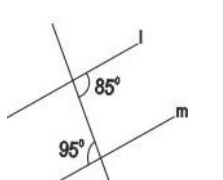
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>4</td> <td>5</td> <td>7</td> <td>10</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	4	5	7	10
AnswerOptions																	
Option A	Option B	Option C	Option D														
4	5	7	10														
6	<b>2_10</b> <b>Mathematics</b> <b>5866</b>	UNDERSTANDING QUADRILATERALS	<p>Look at the polygons shown below. In each of them, ALL the diagonals drawn from ONE vertex are shown.</p> <p>From these we can say that the number of diagonals that can be drawn from any one vertex of a 20-sided polygon is</p>		C												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>20</td> <td>19</td> <td>17</td> <td>16</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	20	19	17	16
AnswerOptions																	
Option A	Option B	Option C	Option D														
20	19	17	16														
7	<b>2_10</b> <b>Mathematics</b> <b>5880</b>	UNDERSTANDING QUADRILATERALS	<p>The figure given is NOT to scale.)</p> <p>If <math>KN \parallel LM</math>, the sides of KLMN in increasing order are</p>		B												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>KL, KN, MN, LM</td> <td>KN, KL, MN, LM</td> <td>MN, KL, KN, LM</td> <td>KN, MN, KL, LM</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	KL, KN, MN, LM	KN, KL, MN, LM	MN, KL, KN, LM	KN, MN, KL, LM
AnswerOptions																	
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8	<b>2_10</b> <b>Mathematics</b> <b>5881</b>	UNDERSTANDING QUADRILATERALS	<p>In the above figure, lines <math>l</math> and <math>m</math> are parallel.</p> <p>What is the measure of <math>\angle R</math>?</p>	 <p style="text-align: right; font-size: small;">Not to scale</p>	C												

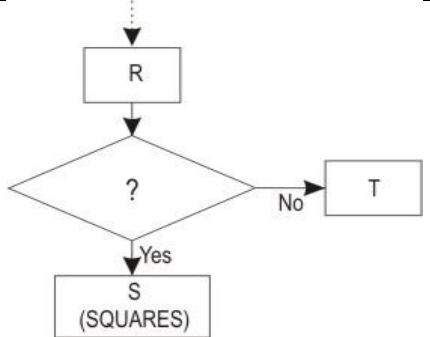
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>100°</td> <td>120°</td> <td>120°</td> <td>160°</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	100°	120°	120°	160°
AnswerOptions																	
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100°	120°	120°	160°														
9	3_18 Mathematics 3358	UNDERSTANDING QUADRILATERALS	A part of quadrilateral EFGH is covered with an object X. Which of the following is DEFINITELY true about quadrilateral EFGH?		D												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>It must be a parallelogram</td> <td>It must be a rectangle</td> <td>It must be a square</td> <td>none of the above</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	It must be a parallelogram	It must be a rectangle	It must be a square	none of the above
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10	3_18 Mathematics 3376	UNDERSTANDING QUADRILATERALS	What is the sum of all the interior angles (marked in the figure) of polygon PQRSTUV?		D												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>360°</td> <td>420°</td> <td>720°</td> <td>900°</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	360°	420°	720°	900°
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11	1_4 Mathematics 7598	UNDERSTANDING QUADRILATERALS	<p>The chart given below puts quadrilaterals in different boxes according to certain conditions.</p> <p>According to the conditions in this chart, which type of quadrilaterals will be placed in the box marked X?</p>		A												



		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>all those parallelograms which are not rectangles</td> <td>all those rhombuses which are not squares</td> <td>all rectangles</td> <td>all those rectangles which are not squares</td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	all those parallelograms which are not rectangles	all those rhombuses which are not squares	all rectangles	all those rectangles which are not squares
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12	<b>1_4</b> <b>Mathematics</b> <b>7601</b>	UNDERSTANDING QUADRILATERALS The roads connecting the houses of Ravi, Sunil, Kapil and Roger form a quadrilateral as shown here. Let us refer to the quadrilateral as KLMN. It is not known which corner is K, which is L, etc.  It is known that $\angle K + \angle M > 180^\circ$ and that $\angle L$ is not the smallest angle of the quadrilateral.			A												
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Ravi	Sunil	Kapil	Roger														
13	<b>2_11</b> <b>Mathematics</b> <b>4429</b>	UNDERSTANDING QUADRILATERALS A parallelogram MNOP will be a rectangle when diagonals MO and NP			A												
		<table border="1" style="width: 100%; text-align: center;"> <tr><th colspan="4">AnswerOptions</th></tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>are equal</td> <td>are perpendicular</td> <td>bisect each other</td> <td>intersect at an angle of <math>45^\circ</math></td> </tr> </table>				AnswerOptions				Option A	Option B	Option C	Option D	are equal	are perpendicular	bisect each other	intersect at an angle of $45^\circ$
AnswerOptions																	
Option A	Option B	Option C	Option D														
are equal	are perpendicular	bisect each other	intersect at an angle of $45^\circ$														
14	5_26 1666	Understanding Quadrilaterals According to the angle measures given, in which figure are lines l and m parallel? (The figures are NOT to			B												

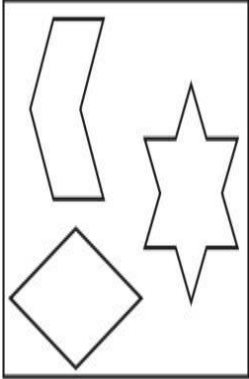
		scale)	
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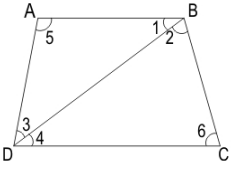
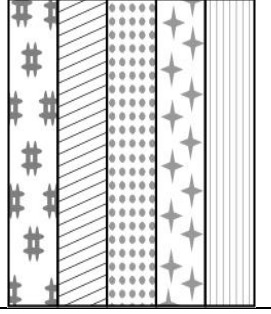
AnswerOptions			
Option A	Option B	Option C	Option D
			

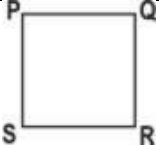
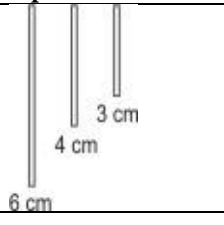
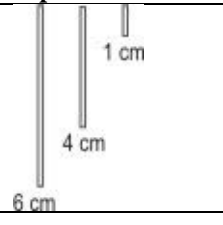
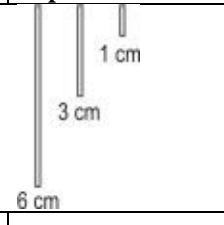
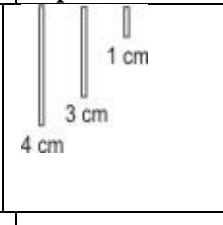
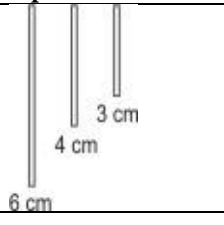
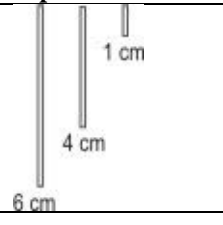
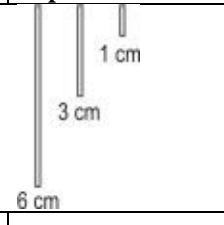
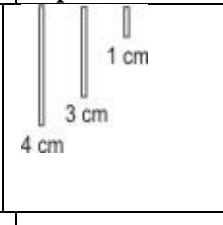
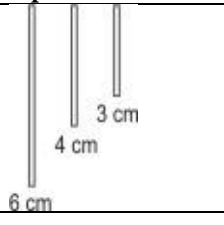
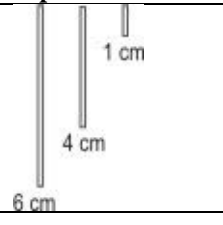
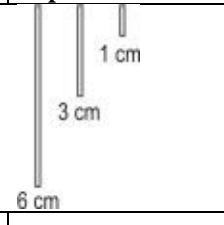
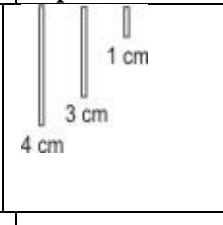
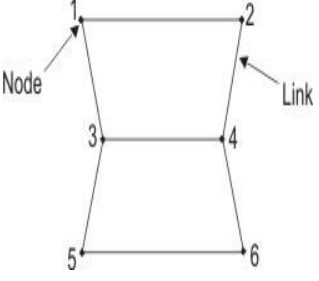
15	5_26 1699	Unders tanding Quadril aterals	Nadeem wants to extend the flowchart further from R to specify whether a given quadrilateral is a square. What question should he put in the box below R?		C
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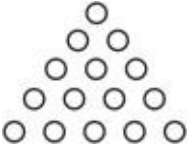
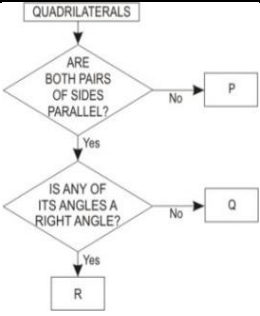
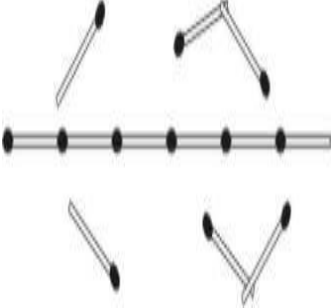
AnswerOptions			
Option A	Option B	Option C	Option D
Are all the angles in the figure right angles?""	Are the opposite sides equal?""	Are any two adjacent sides of the figure equal?"" "	Are the opposite angles of the figure equal?""

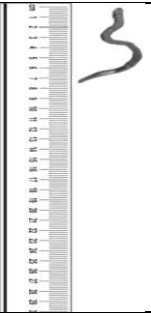

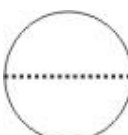
### Set-7

Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)																				
1	3_19 2744	Understanding Quadrilaterals	Look at the group of figures in the box here. Which of the following properties fit ALL the figures in the box?		A																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">AnswerOptions</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td>All the sides are equal and at least one pair of sides is parallel</td> <td>At least one pair of sides is parallel and all the interior angles are acute</td> <td>At least one pair of sides is parallel and all the angles are equal</td> <td>All the sides are equal and all the interior angles are obtuse</td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	All the sides are equal and at least one pair of sides is parallel	At least one pair of sides is parallel and all the interior angles are acute	At least one pair of sides is parallel and all the angles are equal	All the sides are equal and all the interior angles are obtuse								
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2	3_19 2747	Understanding Quadrilaterals	<p>Some students are measuring and examining diagonal properties of quadrilaterals in their Geometry class. They have so far measured four quadrilaterals given in a worksheet and recorded their findings in a table as shown below. Which of the quadrilaterals measured by the students is a rectangle?</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 25%;">Name of the quadrilateral</th> <th style="width: 25%;">Diagonals bisect each other</th> <th style="width: 25%;">Diagonals are equal</th> <th style="width: 25%;">Diagonals are perpendicular</th> </tr> </thead> <tbody> <tr> <td>EFGH</td> <td>Yes</td> <td>No</td> <td>No</td> </tr> <tr> <td>IJKL</td> <td>No</td> <td>No</td> <td>No</td> </tr> <tr> <td>MNOP</td> <td>No</td> <td>No</td> <td>Yes</td> </tr> <tr> <td>QRST</td> <td>Yes</td> <td>Yes</td> <td>No</td> </tr> </tbody> </table>	Name of the quadrilateral	Diagonals bisect each other	Diagonals are equal	Diagonals are perpendicular	EFGH	Yes	No	No	IJKL	No	No	No	MNOP	No	No	Yes	QRST	Yes	Yes	No		D
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IJKL	No	No	No																						
MNOP	No	No	Yes																						
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		<b>Answer Options</b>			
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
		EFGH	IJKL	MNOP	QRST
					MNOI
3	5_27 8386	Understanding Quadrilaterals	ABCD is a trapezium with AB parallel to CD. Which of the following CANNOT be concluded based on this?		B
		<b>Answer Options</b>			
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
		$\angle 1 = \angle 4$	$\angle 2 = \angle 3$	$\angle 1 + \angle 2 + \angle 6 = 180^\circ$	$\angle 3 + \angle 4 + \angle 5 = 180^\circ$
4	5_27 8416	Understanding Quadrilaterals	Five identical rectangular pieces of cloth of different prints when arranged as shown form a square patch. If the perimeter of each rectangular piece is 48 cm, what is the perimeter of the square patch?		D
		<b>AnswerOptions</b>			
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
		240cm	120cm	96cm	80cm
5	5_28 10047	Understanding Quadrilaterals	Rahul and Tapan are playing a guessing game with shapes. Rahul draws a quadrilateral and answers Tapan's questions as follows: Tapan: Are all its sides equal? Rahul: Yes. Tapan: Are its diagonals equal? Rahul: No. Which of the following is the MOST accurate description of the shape that Rahul has drawn?		D

		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> <tr> <td>Square</td> <td>Rectangle</td> <td>Parallelogram</td> <td>Rhombus</td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D	Square	Rectangle	Parallelogram	Rhombus
Answer Options																	
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6	5_28 10065	Understanding Quadrilaterals	An equilateral triangle TSR is to be drawn on base SR of square PQRS. Where will point T lie?		B												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> <tr> <td>Inside square PQRS</td> <td>On the midpoint of side PQ</td> <td>Exactly on point P</td> <td>Outside the square, over the top of PQ</td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D	Inside square PQRS	On the midpoint of side PQ	Exactly on point P	Outside the square, over the top of PQ
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Inside square PQRS	On the midpoint of side PQ	Exactly on point P	Outside the square, over the top of PQ														
7	5_29 11377	Understanding Quadrilaterals	Using which set of sticks can a triangle be formed?		A												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> <tr> <td>  </td> <td>  </td> <td>  </td> <td>  </td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D				
Answer Options																	
Option A	Option B	Option C	Option D														
																	
8	5_29 11398	Understanding Quadrilaterals	The figure below is called a network. It is made up of links and nodes. The aim is to start from a node and complete a full route of the links WITHOUT REPEATING ANY LINK (though a node may be repeated). Is it possible to do this?		C												
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> <tr> <td>It is possible starting from any node.</td> <td>It is possible only if we start from nodes 1 or 2</td> <td>It is possible only if we start from nodes 3 or 4</td> <td>It is not possible.</td> </tr> </table>				Answer Options				Option A	Option B	Option C	Option D	It is possible starting from any node.	It is possible only if we start from nodes 1 or 2	It is possible only if we start from nodes 3 or 4	It is not possible.
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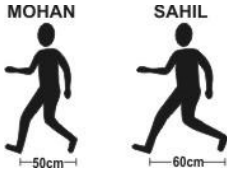
9	5_29 12340	Understanding Quadrilaterals	A triangular array is formed by placing 15 identical plastic chips. The LEAST number of chips that have to be moved to INVERT the triangle (to an upside-down arrangement) is		C												
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>10</td> <td>7</td> <td>5</td> <td>4</td> </tr> </table>						AnswerOptions				Option A	Option B	Option C	Option D	10	7	5	4
AnswerOptions																	
Option A	Option B	Option C	Option D														
10	7	5	4														
10	5_26 1698	Understanding Quadrilateral	According to Nadeem's classification, which box or boxes would contain Parallelograms? Answer the question based on the given information. Nadeem is drawing a flowchart to classify quadrilaterals.		B												
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>both P and Q</td> <td>both Q and R</td> <td>only Q</td> <td>only R</td> </tr> </table>						AnswerOptions				Option A	Option B	Option C	Option D	both P and Q	both Q and R	only Q	only R
AnswerOptions																	
Option A	Option B	Option C	Option D														
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11	5_28 10063	Practical Geometry	Qadir wanted to form a triangle with exactly 12 identical matchsticks, without bending or breaking any. He makes one side of the triangle with 6 matches. How many matchsticks should he use for the other two sides (respectively)?		D												
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>3 matchsticks, 3 matchsticks</td> <td>4 matchsticks, 2 matchsticks</td> <td>5 matchsticks, 1 matchstick</td> <td>He will not be able to make a triangle.</td> </tr> </table>						AnswerOptions				Option A	Option B	Option C	Option D	3 matchsticks, 3 matchsticks	4 matchsticks, 2 matchsticks	5 matchsticks, 1 matchstick	He will not be able to make a triangle.
AnswerOptions																	
Option A	Option B	Option C	Option D														
3 matchsticks, 3 matchsticks	4 matchsticks, 2 matchsticks	5 matchsticks, 1 matchstick	He will not be able to make a triangle.														

12	5_28 10041	Practical Geometry	The length of the worm shown next to the ruler below is about		B										
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>7.5cm</td> <td>10cm</td> <td>15cm</td> <td>22.5</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	7.5cm	10cm
AnswerOptions															
Option A	Option B	Option C	Option D												
7.5cm	10cm	15cm	22.5												
13	5_29 11369	Square and Square roots	What number should come in the box to make the following statement true? $3^4 + 3^2 = 9 \times \square$		C										
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>7</td> <td>10</td> <td>81</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	4	7
AnswerOptions															
Option A	Option B	Option C	Option D												
4	7	10	81												
14	5_26 Mathe matics 1670	Comparing Quantities	What percent of figure 1 is figure 2?	 Fig. 1   Fig. 2	C										
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>33%</td> <td>150%</td> <td>200%</td> <td>300%</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	33%	150%
AnswerOptions															
Option A	Option B	Option C	Option D												
33%	150%	200%	300%												
15	5_26 Mathe matics 1671	Comparing Quantities	To boost sales, a car company slashed the price of a particular model by one eighth from the existing price of Rs. 5.26 lakhs. The price was brought down by about		D										



<table border="1"> <tr> <th colspan="4"><b>AnswerOptions</b></th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>Rs 4400</td> <td>Rs 6600</td> <td>Rs 44000</td> <td>Rs 66000</td> </tr> </table>						<b>AnswerOptions</b>				Option A	Option B	Option C	Option D	Rs 4400	Rs 6600	Rs 44000	Rs 66000
<b>AnswerOptions</b>																	
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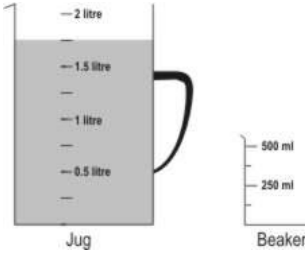


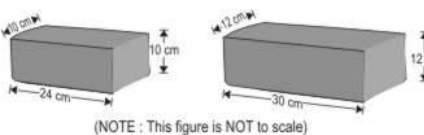
**Set 8**

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
1	5_29 Mathematics 11392	Comparing Quantities	In a cricket match, Pakistan had to score 307 runs in 50 overs to win. They scored at an average rate of 5.6 runs per over in the first 20 overs. What should be their average run rate per over for the remaining overs in order to reach the target?		C				
						<b>AnswerOptions</b>			
						Option A	Option B	Option C	Option D
			5.6	6.14	6.5	8.4			
2	5_29 Mathematics 11393	Comparing Quantities	Mohan and Sahil walk with different stride lengths. How many strides would Mohan take to cover the distance that Sahil covers in 40 strides?		C				
						<b>AnswerOptions</b>			
						Option A	Option B	Option C	Option D
			30	33	48	70			
3	5_29 Mathematics 12339	Comparing Quantities	Ananth ran a 4 km stretch at an average speed of 10 km an hour. If he started his run at 5:00 a.m., at what time did he finish?		A				
						<b>AnswerOptions</b>			
						Option A	Option B	Option C	Option D
			5:24am	5:40am	7:25am	7:30			

4	5_29 Mathematics 12341	Comparing Quantities	To boost sales, a car company slashed the price of a particular model by one eighth from the existing price of Rs. 5.26 lakhs. The price was brought down by about		D										
		<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>Rs 4400</td> <td>Rs 6600</td> <td>Rs 44000</td> <td>Rs 66000</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	Rs 4400	Rs 6600
AnswerOptions															
Option A	Option B	Option C	Option D												
Rs 4400	Rs 6600	Rs 44000	Rs 66000												
5	5_28 Mathematics 10035	Comparing Quantities	If the length of the second's hand of a watch (having a circular dial) is halved, the angle through which it moves in one second will		D										
		<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>be doubled</td> <td>become one fourth</td> <td>be halved</td> <td>remain unchanged</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	be doubled	become one fourth
AnswerOptions															
Option A	Option B	Option C	Option D												
be doubled	become one fourth	be halved	remain unchanged												
6	5_28 Mathematics 10039	Comparing Quantities	Which of these could have a value of 120%?		A										
		<table border="1"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>the increase in the number of students in a school during a year.</td> <td>the marks scored by a student in a test of 500 marks.</td> <td>the discount on a music system priced at Rs. 18000.</td> <td>the decrease in the number of polio cases in a particular district.</td> </tr> </tbody> </table>				AnswerOptions				Option A	Option B	Option C	Option D	the increase in the number of students in a school during a year.	the marks scored by a student in a test of 500 marks.
AnswerOptions															
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7	5_28 Mathematics 10043	Comparing Quantities	According to the Flag Code of India, the length to width ratio of our National Flag should be 3 : 2. The flag should be made up of three rectangular sub-panels of equal width, with the top panel saffron, bottom panel green and the middle panel white, having the Ashok Chakra at its centre. What is the length to the width ratio of each sub-panel in the flag?		A		
<b>AnswerOptions</b>							
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>		<b>Option D</b>	
9:2		9:4		3:2		3:6	
8	5_28 Mathematics 10048	Comparing Quantities	The notice announces a sale in a superstore. Study it and answer the question. Dhara bought a book at this store and had to pay Rs. 180 for it after discount. What was its original price?		A		
<b>AnswerOptions</b>							
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>		<b>Option D</b>	
Rs 200		Rs 198		Rs 190		Rs 162	


9	5_28 Mathematics 10049	Comparing Quantities	<p>The notice announces a sale in a superstore. Study it and answer the question.</p> <p>Abhishek got Rs. 80 off on a stuffed toy that he bought at this store. What was its marked price?</p>		B		
<b>AnswerOptions</b>							
Option A		Option B		Option C		Option D	
Rs 800		Rs 400		Rs 300		Rs 200	
10	5_28 Mathematics 10061	Comparing Quantities	<p>The jug below has to be filled with a liquid, using the beaker shown. If the beaker is to be filled with exactly as much liquid as is required to fill the jug upto the 2-litre mark, what part of it should be filled?</p>		B		
<b>AnswerOptions</b>							
Option A		Option B		Option C		Option D	
$\frac{1}{4}$		$\frac{1}{2}$		$\frac{2}{3}$		$\frac{3}{4}$	

11	5_28 Mathematics 10062	Comparing Quantities	A bakery makes bread loaves in two sizes as shown in figure.The smaller loaf is priced at Rs.10 and the larger at Rs. 20. Which loaf is better (more economical) to buy?		A
----	------------------------------	-------------------------	--	--	---

AnswerOptions			
Option A	Option B	Option C	Option D
the smaller one	the larger one	both are equally economical	depends on the number of slices

12	5_27 Mathematics 8384	Comparing Quantities	How does 50% of a negative number compare with the number?		B
----	-----------------------------	-------------------------	--	--	---

AnswerOptions			
Option A	Option B	Option C	Option D
It is less than the number.	It is greater than the number.	It is equal to zero.	It can be less or more depending on the number.

13	5_27 Mathematics 8385	Comparing Quantities	What is the likely weight of a regular steel teaspoon?		C
----	-----------------------------	-------------------------	--	--	---

AnswerOptions			
Option A	Option B	Option C	Option D
25 milligrams	75 milligrams	20 grams	100 grams

14	5_27 Mathematics 8391	Comparing Quantities	If 25% of Y is the same as 200% of Z, then		D		
<b>AnswerOptions</b>							
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>		<b>Option D</b>	
Y = $\frac{1}{4}$ of Z		Y = $\frac{1}{8}$ of Z		Y = 2Z		Y = 8Z	
15	5_27 Mathematics 8397	Comparing Quantities	A sports club had 40 members. One-fourth of them were girls. How many more girls should they take if they want the girls to boys' ratio to be 1:2?		C		
<b>AnswerOptions</b>							
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>		<b>Option D</b>	
2		4		5		10	

**Set-9**

<b>S.N</b>	<b>Folder Number &amp; Question Code</b>	<b>Topic</b>	<b>Question with Answer Options</b>	<b>Image (If Any)</b>	<b>Correct Answer (Option-A,B,C,D)</b>
<b>1</b>	<b>3_18 Mathematics 3350</b>	Comparing quantities	Which of the following could be 110%?		<b>B</b>
<b>Answers option</b>					
		Option A	Option B	Option C	Option D
		The discount on a bag costing Rs. 1500	The profit on selling a second hand motorbike.	The percentage of students who passed in an exam.	The percentage of water in a solution of milk and water.

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
2	3_18 Mathematics 3366	Comparing Quantities	A wall hanging that Jayati sold in the school funfair for Rs 20 had cost her Rs 25 to make. Jayati made a _____ on the wall hanging.		C	
<b>Answers option</b>						
Option A		Option B	Option C	Option D		
Profit of 80%	Loss of 5%	Loss of 20%	Loss of 25%			

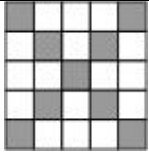

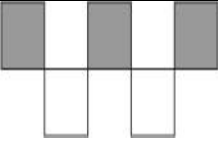
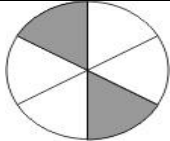
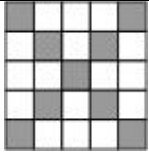

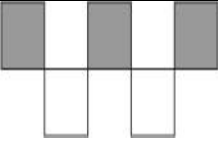
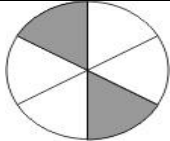
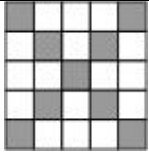

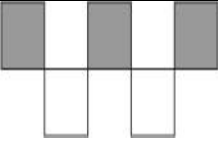
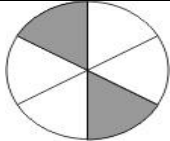


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)		Correct Answer (Option-A,B,C,D)												
3	1_2 Mathematics 6900	Comparing Quantities	Kuljeet goes to a gift shop with a hundred rupee note to buy some presents for her friend. She likes the following items: How many different combinations of items can she purchase if she wants to spend MORE than Rs. 90?	<table border="1"> <thead> <tr> <th data-bbox="1234 415 1482 467">Item</th> <th data-bbox="1482 415 1648 467">Price (Rs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1234 467 1482 511">A Book</td> <td data-bbox="1482 467 1648 511">75.50</td> </tr> <tr> <td data-bbox="1234 511 1482 555">A Pen</td> <td data-bbox="1482 511 1648 555">30</td> </tr> <tr> <td data-bbox="1234 555 1482 599">A Pencil Case</td> <td data-bbox="1482 555 1648 599">18.50</td> </tr> <tr> <td data-bbox="1234 599 1482 643">A Wall Hanging</td> <td data-bbox="1482 599 1648 643">50.75</td> </tr> <tr> <td data-bbox="1234 643 1482 686">A Shoulder Bag</td> <td data-bbox="1482 643 1648 686">40</td> </tr> </tbody> </table>		Item	Price (Rs)	A Book	75.50	A Pen	30	A Pencil Case	18.50	A Wall Hanging	50.75	A Shoulder Bag	40	A
Item		Price (Rs)																
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A Shoulder Bag	40																	
<b>Answers option</b>																		
Option A	Option B	Option C	Option D															
3	4	2	1															

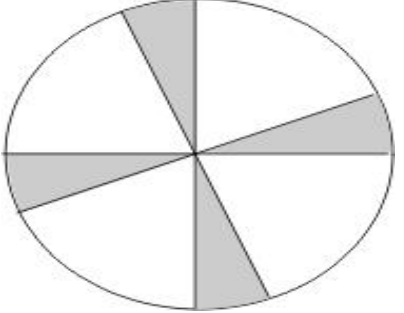
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
4	1_2 Mathematics 6907	Comparing Quantities	Convert 3. 33% into a fraction.		D
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
333	333/10	333/100	333/10000		

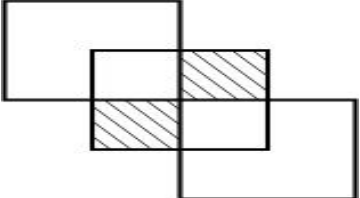
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
5	1_2 Mathematics 6915	Comparing Quantities	A tree sheds 15% of its leaves in a week and 10% of the remaining leaves in the next week. What percentage of the original number of leaves are on the tree then?		C	
<b>Answers option</b>						
Option A		Option B	Option C	Option D		
75%	23. 50%	76. 50%	74. 50%			

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
6	1_2 Mathematics 6917	Comparing Quantities	A dealer buys a chair and a table at Rs 200 and Rs 500 respectively. For selling, he marks the table at Rs 525. What price should he ask for the chair if he wants the percentage profit to be the same on both the items ?		D
		<b>Answers option</b>			
		Option A Rs 225	Option B Rs 205	Option C Rs 190	Option D Rs 210

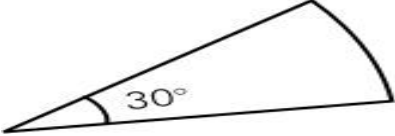
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
7	1_2 Mathematics 6921	Comparing Quantities	Which of the following fractions (shown by the shading) can be represented as a recurring decimal?		<b>D</b>											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4" data-bbox="583 824 1902 862">Answers option</th> </tr> <tr> <th data-bbox="583 862 915 906">Option A</th> <th data-bbox="915 862 1247 906">Option B</th> <th data-bbox="1247 862 1579 906">Option C</th> <th data-bbox="1579 862 1902 906">Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="583 906 915 1068">  </td> <td data-bbox="915 906 1247 1068">  </td> <td data-bbox="1247 906 1579 1068">  </td> <td data-bbox="1579 906 1902 1068">  </td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D				
Answers option																
Option A	Option B	Option C	Option D													
																

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
8	1_2 Mathematics 6923	Comparing Quantities	Both the scales below are balanced. The weight required on the right hand side to balance the scale shown below will be?		B
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
250g	200 g	300 g	225 g		

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
9	1_2 Mathematics 6925	Comparing Quantities	<p>Nimisha wants to draw a wheel like the one shown. Each shaded part of the wheel should be one third of each unshaded part.</p> <p>What should be the degree measure of the angle formed at the centre by each shaded part?</p>		A
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
22.5 <sup>o</sup>	20 <sup>o</sup>	25 <sup>o</sup>	30 <sup>o</sup>		

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
10	1_4 Mathematics 7578	Comparing Quantities	What percentage of the figure shown is shaded?		A
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
20%	33 $\frac{1}{3}$ %	50%	30%		



S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
11	1_4 Mathematics 7597	Comparing Quantities	How many pieces exactly like this one are needed to form a complete circle (circular region)?		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
6	8	10	12		

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
12	1_4 Mathematics 7599	Comparing Quantities	Nandini makes 'halwa' one evening and divides it into four equal portions for her family of four. However, just as they are about to eat it, an unexpected guest arrives and Nandini has to now re-divide the halwa into five equal portions. By what percentage has each family member's share reduced due to this?		C											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>5%</td> <td>10%</td> <td>20%</td> <td>25%</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	5%	10%	20%	25%
Answers option																
Option A	Option B	Option C	Option D													
5%	10%	20%	25%													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
13	1_4 Mathematics 7608	Comparing Quantities	The fastest sprinter in the world can run at a speed of about 36 km/hr while a cat can run at a speed of 48 km/hr. How many seconds would a cat take to run the distance which the sprinter runs in 30 seconds?		D	
<b>Answers option</b>						
Option A		Option B	Option C	Option D		
45	40	25	22 ½			

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
14	2_11 Mathematics 5266	Comparing Quantities	Convert 3.33% into a fraction.		D
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
333	333/10	333/100	333/10000		

	<b>Folder Number &amp; Question Code</b>	<b>Topic</b>	<b>Question with Answer Options</b>	<b>Image (If Any)</b>	<b>Correct Answer (Option-A,B,C,D)</b>
15	<b>2_11 Mathematics 5269</b>	Comparing Quantities	A tree sheds 15% of its leaves in a week and 10% of the remaining leaves in the next week. What percentage of the original number of leaves are on the tree then?		<b>C</b>
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
75%		23.50%	76.50%	74.50%	

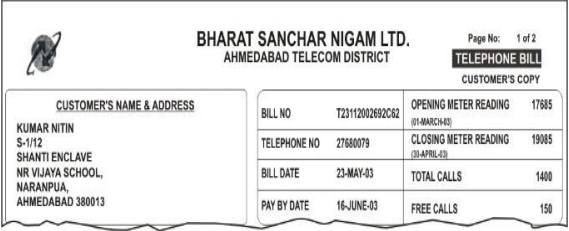


## Set 10

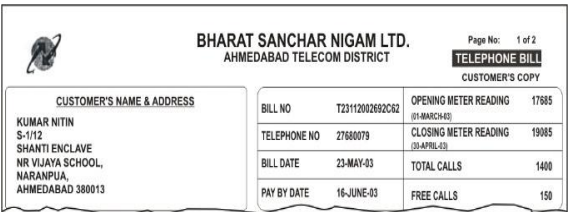
**Subject: Mathematics**

**Class VIII**

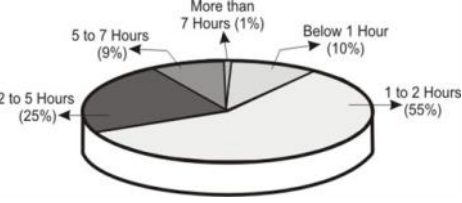
Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A, B, C, D)												
1	5_26 Mathematics 1676	Comparing Quantities	In a cricket match, Pakistan had to score 307 runs in 50 overs to win. They scored at an average rate of 5.6 runs per over in the first 20 overs. What should be their average run rate per over for the remaining overs in order to reach the target?		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5.6</td> <td style="text-align: center;">6.14</td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">8.4</td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D	5.6	6.14	6.5	8.4
AnswerOptions																	
Option A	Option B	Option C	Option D														
5.6	6.14	6.5	8.4														
2	5_26 Mathematics 1677	Comparing Quantities	It is believed that a rectangle in which the length to breadth ratio is about 1.62, is most pleasant to the human eye. Such a rectangle is called a Golden Rectangle. Which of the following rectangles is closest to a Golden Rectangle?		D												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </tbody> </table>						AnswerOptions				Option A	Option B	Option C	Option D				
AnswerOptions																	
Option A	Option B	Option C	Option D														

		A.	B.	C.	D.													
3	5_26M athematics 1678	Comparing Quantities	If we increase a number x by 33%, the resulting number would be			B												
<table border="1" style="width: 100%;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>33 + x</math></td> <td><math>1.33x</math></td> <td><math>\frac{100x + 33}{100}</math></td> <td><math>34x</math></td> </tr> </table>							AnswerOptions				Option A	Option B	Option C	Option D	$33 + x$	$1.33x$	$\frac{100x + 33}{100}$	$34x$
AnswerOptions																		
Option A	Option B	Option C	Option D															
$33 + x$	$1.33x$	$\frac{100x + 33}{100}$	$34x$															
4	5_26M athematics 1682	Comparing Quantities	The ratio of Neha's age to that of Jane is 4:7 and the ratio of Jane's age to that of Smita is 4:3. If Smita is 21 years old, how old is Neha?			B												
<table border="1" style="width: 100%;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>4 years</td> <td>16 years</td> <td>21 years</td> <td>28 years</td> </tr> </table>							AnswerOptions				Option A	Option B	Option C	Option D	4 years	16 years	21 years	28 years
AnswerOptions																		
Option A	Option B	Option C	Option D															
4 years	16 years	21 years	28 years															
5	5_26 Mathematics 1683	Comparing Quantities	A part of Mr. Nitin's telephone bill is shown in image 1. For what period this bill is given.			D												
<table border="1" style="width: 100%;"> <tr> <th colspan="4">AnswerOptions</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>1<sup>st</sup> March 2003 to 31<sup>st</sup> March 2003.</td> <td>23<sup>rd</sup> May 2003 to 16<sup>th</sup> June 2003.</td> <td>16<sup>th</sup> June 2003 to 16<sup>th</sup> September 2003.</td> <td>1<sup>st</sup> March 2003 to 30<sup>th</sup> April 2003.</td> </tr> </table>							AnswerOptions				Option A	Option B	Option C	Option D	1 <sup>st</sup> March 2003 to 31 <sup>st</sup> March 2003.	23 <sup>rd</sup> May 2003 to 16 <sup>th</sup> June 2003.	16 <sup>th</sup> June 2003 to 16 <sup>th</sup> September 2003.	1 <sup>st</sup> March 2003 to 30 <sup>th</sup> April 2003.
AnswerOptions																		
Option A	Option B	Option C	Option D															
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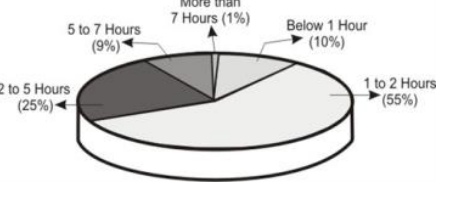


6	5_26M athematics 1684	Comparing Quantities	A part of Mr. Nitin's telephone bill is shown in image 1. Call charges are calculated as image 2. What are the total call charges for this bill?	 <p>Image 1</p> <table border="1" data-bbox="826 501 1289 618"> <thead> <tr> <th>Call units</th> <th>Rate per call unit</th> </tr> </thead> <tbody> <tr> <td>First 150 calls</td> <td>Free</td> </tr> <tr> <td>Next 250 calls</td> <td>Rs. 1.00</td> </tr> <tr> <td>Remaining calls</td> <td>Rs. 1.20</td> </tr> </tbody> </table> <p>Image 2</p>	Call units	Rate per call unit	First 150 calls	Free	Next 250 calls	Rs. 1.00	Remaining calls	Rs. 1.20	C
Call units	Rate per call unit												
First 150 calls	Free												
Next 250 calls	Rs. 1.00												
Remaining calls	Rs. 1.20												

AnswerOptions			
Option A	Option B	Option C	Option D
Rs 1250	Rs 1400	Rs 1450	Rs 1500

7	5_26M athematics 1695	Comparing Quantities	A survey was conducted among schoolchildren in a city to find out the average number of hours they spent on the computer every week. The results are shown in the pie chart. Study it to the answer question What percent of the school children who were surveyed spend over 5 hours weekly on the computer?		C
---	-----------------------------	-------------------------	--	---	---

AnswerOptions			
Option A	Option B	Option C	Option D
35	10	9	1

8	5_26M athematics 1696	Comparing Quantities	A survey was conducted among schoolchildren in a city to find out the average number of hours they spent on the computer every week. The results are shown in the pie chart. Study it to the answer question The actual number of students in the '2 to 5 Hours' category was 312. What was the total number of students who took		C
---	-----------------------------	-------------------------	--	--	---

			part in the survey?		
<b>AnswerOptions</b>					
<b>Option A</b>		<b>Option B</b>		<b>Option C</b>	
78		936		1248	
				<b>Option D</b>	
				3120	

9	5_26M athematics 1697	Comparing Quantities	<p>A survey was conducted among schoolchildren in a city to find out the average number of hours they spent on the computer every week. The results are shown in the pie chart. Study it to the answer question</p> <p>Among the students who were in the 'Below 1 Hour' category, 5% had never used a computer. What percent of the total number of students surveyed had never used a computer?</p>	<table border="1"> <caption>Pie Chart Data</caption> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>1 to 2 Hours</td> <td>55%</td> </tr> <tr> <td>2 to 5 Hours</td> <td>25%</td> </tr> <tr> <td>5 to 7 Hours</td> <td>9%</td> </tr> <tr> <td>Below 1 Hour</td> <td>10%</td> </tr> <tr> <td>More than 7 Hours</td> <td>1%</td> </tr> </tbody> </table>	Category	Percentage	1 to 2 Hours	55%	2 to 5 Hours	25%	5 to 7 Hours	9%	Below 1 Hour	10%	More than 7 Hours	1%	A
Category	Percentage																
1 to 2 Hours	55%																
2 to 5 Hours	25%																
5 to 7 Hours	9%																
Below 1 Hour	10%																
More than 7 Hours	1%																

<b>AnswerOptions</b>			
<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
0.50%	2%	15%	50%

10	5_29 Mathematics 11375	Comparing Quantities	<p>Nandini makes 'halwa' one evening and divides it into four equal portions for her family of four. However, just as they are about to eat it, an unexpected guest arrives and Nandini has to now re-divide the halwa into five equal portions. By what percentage has each family member's share reduced due to this?</p>		C
----	------------------------------	-------------------------	---	--	---


<b>AnswerOptions</b>			
<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
5%	10%	20%	25%

11	5_29 Mathematics 11376	Comparing Quantities	Bipasha can eat 24 rasgullas in 12 minutes. Her friend Sujata takes double the time to eat the same number. One day they buy 24 rasgullas and start eating them. If they eat at their normal speeds till the rasgullas are over, how many rasgullas would Sujata have eaten?		B
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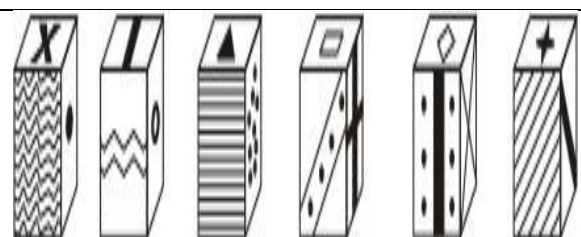
AnswerOptions			
Option A	Option B	Option C	Option D
6	8	12	16

12	5_29 Mathematics 11389	Comparing Quantities	See the table showing a relation between x and y. Which of these is the correct relation between x and y?	<table border="1"> <tr> <td>x</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>y</td> <td>0.5</td> <td>1</td> <td>1.5</td> <td>2</td> <td>2.5</td> </tr> </table> <p>Table</p>	x	2	4	6	8	10	y	0.5	1	1.5	2	2.5	B
x	2	4	6	8	10												
y	0.5	1	1.5	2	2.5												

AnswerOptions			
Option A	Option B	Option C	Option D
$4x = y$	$\frac{x}{y} = 4$	$xy = 4$	$y = x - 3$

13	5_29 Mathematics 11390	Comparing Quantities	Shivani pays Rs. 450 for a ready-made salwar kurta set she buys from Grandways during a sale (see the notice). How much money did she save because of the sale?	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><b>GRANDWAYS STORES</b></p>  <p>10% off on all Ready-mades!</p> </div> <p>Notice</p>	B
----	------------------------------	-------------------------	---	---	---

AnswerOptions			
Option A	Option B	Option C	Option D
Rs 55	Rs 50	Rs 49.50	Rs 40.50

14	2_11 Mathematics 4446	VISUALISING SOLID SHAPES	Ginny has a set of 6 small cubes of the same size with designs painted on the faces. No two faces (among ALL 6 cubes) have the same design.		D
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Ginny wants to stick all 6 cubes together so that the maximum number of different designs are visible from outside. Which of the solids shown below should she form?

AnswerOptions			
Option A	Option B	Option C	Option D
<p><b>A.</b></p>	<p><b>B.</b></p>	<p><b>C.</b></p>	<p><b>D.</b></p>

15

**2\_11**  
**Mathematics**  
**4444**

VISUALISING  
SOLID  
SHAPES

What is the least number of degrees by which figure X has to be rotated about its centre to get figure Y?



C


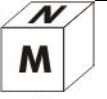



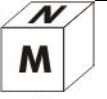



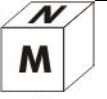


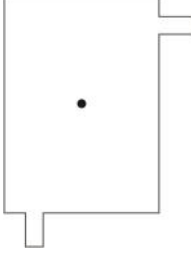
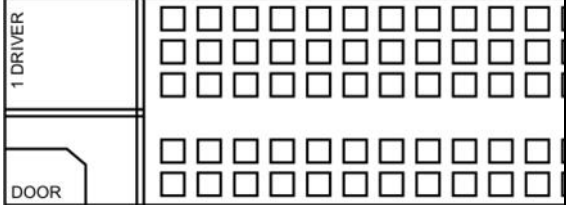
AnswerOptions			
Option A	Option B	Option C	Option D
$60^\circ$	$45^\circ$	$30^\circ$	$15^\circ$

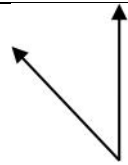
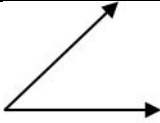
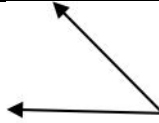
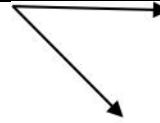
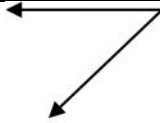
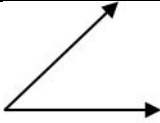
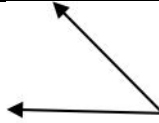
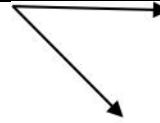
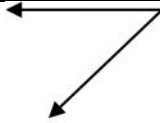
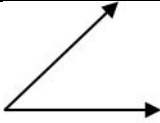
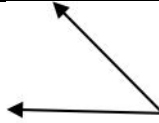
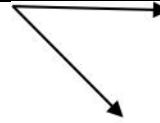
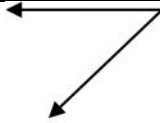
SET 11

Subject- Mathematics

Class-VIII

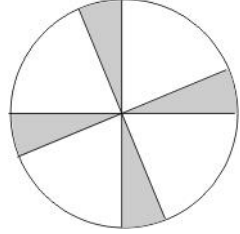
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_18 Mathematics 3355	VISUALISING SOLID SHAPES	In the figure, lines PT and RU are parallel. What is the measure of the angle marked x?		C
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		$77^\circ$	$83^\circ$	$97^\circ$	$103^\circ$
2	3_18 Mathematics 3359	VISUALISING SOLID SHAPES	<p>A cube has the letters M and N on two of its faces. The other four faces are BLANK. This is one view of the cube:</p> <p>Which of these is another view of the same cube?</p>		C

		<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td> A.</td> <td> B.</td> <td> C.</td> <td> D.</td> </tr> </table>				Answers option				Option A	Option B	Option C	Option D	 A.	 B.	 C.	 D.
Answers option																	
Option A	Option B	Option C	Option D														
 A.	 B.	 C.	 D.														
3	3_18 Mathematics 3372	VISUALISING SOLID SHAPES	What is the minimum number of degrees by which the shape below has to be rotated (about its centre) so that it looks exactly the same as it does now?		D												
		<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>9°</td> <td>100°</td> <td>180°</td> <td>360°</td> </tr> </table>				Answers option				Option A	Option B	Option C	Option D	9°	100°	180°	360°
Answers option																	
Option A	Option B	Option C	Option D														
9°	100°	180°	360°														
4	2_11 Mathematics 4432	VISUALISING SOLID SHAPES	<p>The top view of a school bus showing the arrangement of the passenger seats is shown below:</p> <p>Which of the following is the correct way of counting the total number of passenger seats in the bus?</p>		C												

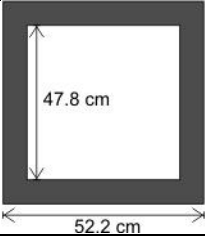
		<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td><math>3 + 2 \times 12 + 6</math></td> <td><math>6 - 1 \times 13 + 1</math></td> <td><math>5 \times 12 + 6</math></td> <td><math>2 + 3 \times 13 - 12</math></td> </tr> </table>				Answers option				Option A	Option B	Option C	Option D	$3 + 2 \times 12 + 6$	$6 - 1 \times 13 + 1$	$5 \times 12 + 6$	$2 + 3 \times 13 - 12$
Answers option																	
Option A	Option B	Option C	Option D														
$3 + 2 \times 12 + 6$	$6 - 1 \times 13 + 1$	$5 \times 12 + 6$	$2 + 3 \times 13 - 12$														
5	<b>2_11 Mathematics 5282</b>	VISUALISING SOLID SHAPES	<p>If the above figure is turned by <math>270^\circ</math> in an ANTICLOCKWISE DIRECTION, which of these would be the result?</p>		A												
		<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>  <p><b>A</b></p> </td> <td>  <p><b>B</b></p> </td> <td>  <p><b>C</b></p> </td> <td>  <p><b>D</b></p> </td> </tr> </table>				Answers option				Option A	Option B	Option C	Option D	 <p><b>A</b></p>	 <p><b>B</b></p>	 <p><b>C</b></p>	 <p><b>D</b></p>
Answers option																	
Option A	Option B	Option C	Option D														
 <p><b>A</b></p>	 <p><b>B</b></p>	 <p><b>C</b></p>	 <p><b>D</b></p>														
6	<b>2_11 Mathematics 5286</b>	VISUALISING SOLID SHAPES	<p>Here is a letter pattern. Study it carefully and answer questions 32 and 33</p> <p>How many times would you have written the letter 'c' if you complete writing this pattern up to the end of the TENTH row?</p>	<pre style="text-align: center;"> a aba abcbaba abcdcbaba ⋮ </pre>	B												

Answers option			
Opt ion A	Opt ion B	Opt ion C	Opt ion D
10	15	19	45

		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Opt ion A</th> <th>Opt ion B</th> <th>Opt ion C</th> <th>Opt ion D</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>15</td> <td>19</td> <td>45</td> </tr> </tbody> </table>				Answers option				Opt ion A	Opt ion B	Opt ion C	Opt ion D	10	15	19	45
Answers option																	
Opt ion A	Opt ion B	Opt ion C	Opt ion D														
10	15	19	45														

7	2_11 Mathematics 5274	Mensuration	Nimisha wants to draw a wheel like the one shown. Each shaded part of the wheel should be one third of each unshaded part. What should be the degree measure of the angle formed at the centre by each shaded part?		A
---	-----------------------------	-------------	---	---	---

Answers option			
Option A	Option B	Option C	Option D
22.5°	20°	25°	30°

8	2_11 Mathematics 5275	Mensuration	Which of the following is NOT a correct way of finding the area of the square frame shown below?		C
---	-----------------------------	-------------	--	---	---



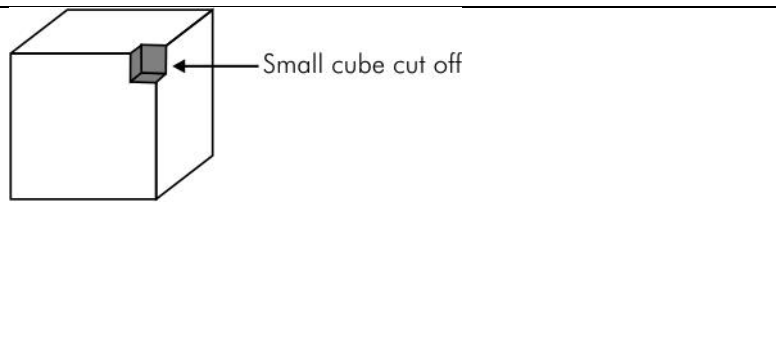
Answers option			
Option A	Option B	Option C	Option D
$52.2^2 - 47.8^2$	$2 \times \{(52.2 \times 2.2) + (47.8 \times 2.2)\}$	$52.2 \times 4.4 \times 2 + 47.8 \times 4.4 \times 2$	$100 \times (52.2 - 47.8)$

9

2\_11  
Mathematics  
5285

Mensuration

A small cube is cut off from a larger cube as shown below. For the ORIGINAL CUBE, WHICH OF THE FOLLOWING WILL REMAIN UNCHANGED?



B

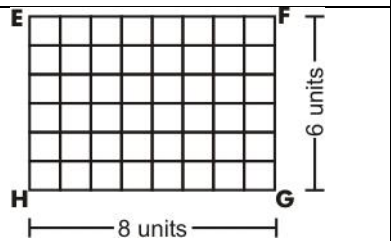
Answers option			
Option A	Option B	Option C	Option D
the volume	the total surface area	the number of edges	The number of corners

10

2\_11  
Mathematics  
4430

Mensuration

A rectangle EFGH is shown below:  
If the width of rectangle EFGH is decreased by 2 units, by how many units should the length be

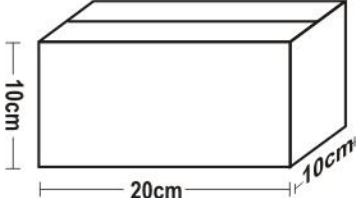
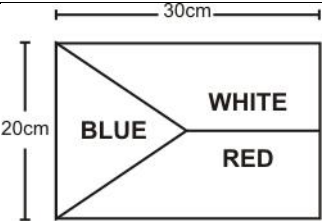



B

		increased so that the AREA of the rectangle remains unchanged?														
<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>4</td> <td>8</td> <td>16s</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	2	4	8	16s
Answers option																
Option A	Option B	Option C	Option D													
2	4	8	16s													

11	<b>2_11</b> <b>Mathematics</b> <b>4437</b>	Mensuration	<p>The formula for finding the perimeter (P) of a rectangle when the length (l) and breadth (b) are given is <math>P = 2(l + b)</math>.</p> <p>Which of the following is the correct sequence of steps to obtain the length of a rectangle when the perimeter and breadth are known?</p>		D
----	--	-------------	--	--	---

Answers option			
Option A	Option B	Option C	Option D
Subtract b from P and then divide the result by 2.	Divide P by b and then divide the result by 2.	Multiply P by 2 and then add b to the result.	Divide P by 2 and then subtract b from the result.

12	2_11 Mathematics 4441	Mensuration	1 millilitre (ml) can be defined as the volume of liquid that a cubical box of side 1 cm can hold. How many LITRES of liquid can the container shown here hold?		D												
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answers option</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2000</td> <td style="text-align: center;">20</td> <td style="text-align: center;">10</td> <td style="text-align: center;">2</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	2000	20	10	2
Answers option																	
Option A	Option B	Option C	Option D														
2000	20	10	2														
13	2_11 Mathematics 4449	Mensuration	<p>A group of students from the Czech Republic are going to visit Farhan's school. Farhan is asked to paint a Czech flag to put up in his classroom. The dimensions and colours of the flag are as shown:</p> <p>If one vertex of the triangle is exactly at the centre of the flag, how much area would Farhan paint blue?</p>		A												
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answers option</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">150 sq.cm</td> <td style="text-align: center;">200 sq.cm</td> <td style="text-align: center;">300 sq.cm</td> <td style="text-align: center;">400 sq.cm</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	150 sq.cm	200 sq.cm	300 sq.cm	400 sq.cm
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14	<p style="text-align: center;"><b>2_11 Mathematics 5257</b></p>	Mensuration	Bablu has three sticks of lengths 3, 4 and 5 cm. Ramesh has three sticks of lengths 3, 5 and 9 cm. How many triangles can Bablu and Ramesh make with their sticks?		A											
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>Bablu: 1, Ramesh: 0</td> <td>Bablu: 2, Ramesh: 1</td> <td>Bablu: 1, Ramesh: 1</td> <td>Bablu: 0, Ramesh: 2</td> </tr> </table>					Answers option				Option A	Option B	Option C	Option D	Bablu: 1, Ramesh: 0	Bablu: 2, Ramesh: 1	Bablu: 1, Ramesh: 1	Bablu: 0, Ramesh: 2
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15	<p style="text-align: center;"><b>2_11 Mathematics 5259</b></p>	Mensuration	What is the area of the shaded portion if the area of the circle is 56 sq cm?	 <p style="text-align: right;">Area of the circle = 56 cm<sup>2</sup></p>	B											
<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> <tr> <td>12 sq cm</td> <td>14 sq cm</td> <td>14.8 sq cm</td> <td>18.5 sq cm</td> </tr> </table>					Answers option				Option A	Option B	Option C	Option D	12 sq cm	14 sq cm	14.8 sq cm	18.5 sq cm
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## Question Paper

**Subject:** Mathematics

**Grade:** 8<sup>th</sup>

### Set 2

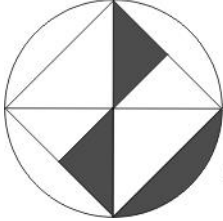
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
1	1_2 Mathematics 6896	Mensuration	Bablu has three sticks of lengths 3, 4 and 5 cm. Ramesh has three sticks of lengths 3, 5 and 9 cm. How many triangles can Bablu and Ramesh make with their sticks?		A												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answers option</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Bablu: 1, Ramesh: 0</td> <td style="text-align: center;">Bablu: 2, Ramesh: 1</td> <td style="text-align: center;">Bablu: 1, Ramesh: 1</td> <td style="text-align: center;">Bablu: 0, Ramesh: 2</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	Bablu: 1, Ramesh: 0	Bablu: 2, Ramesh: 1	Bablu: 1, Ramesh: 1	Bablu: 0, Ramesh: 2
Answers option																	
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Bablu: 1, Ramesh: 0	Bablu: 2, Ramesh: 1	Bablu: 1, Ramesh: 1	Bablu: 0, Ramesh: 2														


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
2	1_2 Mathematics 6898	Mensuration	The figure below is called a network. It is made up of links and nodes. The aim is to start from a node and complete a full route of the links <u>without repeating any link (though a node may be repeated.)</u> Is it possible to do this?		C											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>It is possible starting from any node.</td> <td>It is possible only if we start from nodes 1 or 2</td> <td>It is possible only if we start from nodes 3 or 4</td> <td>It is not possible.</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	It is possible starting from any node.	It is possible only if we start from nodes 1 or 2	It is possible only if we start from nodes 3 or 4	It is not possible.
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S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
3	1_2 Mathematics 6899	Mensuration	Sukhia, Babu and Ram are 3 farmers each having a small plot of land. Two of them have rectangular plots, and one has a square plot. Some more facts about their plots are: Who has the square plot?	<table border="1"> <thead> <tr> <th></th> <th>Perimeter of plot (in metres)</th> <th>Area of plot (in square metres)</th> </tr> </thead> <tbody> <tr> <td><b>Sukhia</b></td> <td><b>100</b></td> <td><b>600</b></td> </tr> <tr> <td><b>Babu</b></td> <td><b>120</b></td> <td><b>900</b></td> </tr> <tr> <td><b>Datta Ram</b></td> <td><b>140</b></td> <td><b>1200</b></td> </tr> </tbody> </table>		Perimeter of plot (in metres)	Area of plot (in square metres)	<b>Sukhia</b>	<b>100</b>	<b>600</b>	<b>Babu</b>	<b>120</b>	<b>900</b>	<b>Datta Ram</b>	<b>140</b>	<b>1200</b>	B
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Answers option																	
Option A	Option B	Option C	Option D														
Sukhia	Babu	Ram	None of them														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
4	1_2 Mathematics 6904	Mensuration	<p>Consider the two figures given below.</p> <p>Which of the following is true about their areas and perimeters?</p>		B												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>The areas are the same, perimeters are different.</td> <td>The areas are different, perimeters are the same.</td> <td>The areas and perimeters are both different.</td> <td>The areas and perimeters are both the same.</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	The areas are the same, perimeters are different.	The areas are different, perimeters are the same.	The areas and perimeters are both different.	The areas and perimeters are both the same.	
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5	1_2 Mathematics 6908	Mensuration	What is the area of the shaded portion if the area of the circle is $56 \text{ cm}^2$ ?	 <p>Area of the circle = <math>56 \text{ cm}^2</math></p>	B											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>12 \text{ cm}^2</math></td> <td><math>14 \text{ cm}^2</math></td> <td><math>14.8 \text{ cm}^2</math></td> <td><math>18.5 \text{ cm}^2</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	$12 \text{ cm}^2$	$14 \text{ cm}^2$	$14.8 \text{ cm}^2$	$18.5 \text{ cm}^2$
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Option A	Option B	Option C	Option D													
$12 \text{ cm}^2$	$14 \text{ cm}^2$	$14.8 \text{ cm}^2$	$18.5 \text{ cm}^2$													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
6	1_2 Mathematics 6909	Mensuration	<p>In the given figure one square of side 'a' cm and 2 squares of side 'b' cm each are inside a larger square as shown. What will be the area (in cm<sup>2</sup>) of the shaded portion?</p>		A											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>2ab - b^2</math></td> <td><math>a^2 + 2b^2</math></td> <td><math>a^2 - b^2</math></td> <td><math>a^2 + b^2</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	$2ab - b^2$	$a^2 + 2b^2$	$a^2 - b^2$	$a^2 + b^2$
Answers option																
Option A	Option B	Option C	Option D													
$2ab - b^2$	$a^2 + 2b^2$	$a^2 - b^2$	$a^2 + b^2$													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
7	1_2 Mathematics 6910	Mensuration	What is the length of the longest stick that can be packed in the box of the dimensions shown below?		C											
<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>90 cm</td> <td>70 cm</td> <td><math>\sqrt{2900}</math></td> <td><math>\sqrt{2400}</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	90 cm	70 cm	$\sqrt{2900}$	$\sqrt{2400}$
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S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
8	1_2 Mathematics 6911	Mensuration	<p>100 centimetres (cm) = 10 decimetres (dm) = 1 metre (m)</p> <p>1 cm x 1 cm x 1 cm = 1 cm<sup>3</sup> = 1 cc (cc is short for <u>cubic centimetre</u>, and is a unit of volume)</p> <p>1 litre is defined as 1 dm<sup>3</sup></p> <p>How many cc is one 1 millilitre?</p>		A											
<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>1 cc</td> <td>10 cc</td> <td>100 cc</td> <td>1000 cc</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	1 cc	10 cc	100 cc	1000 cc
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S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
9	1_2 Mathematics 6912	Mensuration	A man completes the distance between Delhi and Agra travelling at exactly 40 kilometres per hour for half the distance, at 60 kilometres per hour for the remaining half. What is his average speed for the whole journey?		C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
50 kilometres per hour	24 kilometres per hour	48 kilometres per hour	Cannot be calculated.		

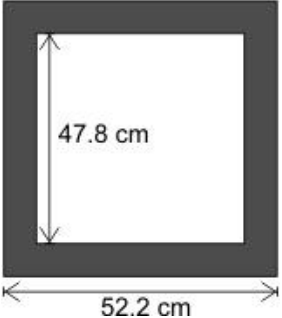
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
10	1_2 Mathematics 6914	Mensuration	Three points are marked as shown on three edges of a wooden cube and the corner is cut off along the plane passing through these points. What will be the sum of the lengths of the edges (in cm) of the resulting pyramid?		D												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>10</td> <td><math>6+\sqrt{8}</math></td> <td>15</td> <td><math>6+3\sqrt{8}</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	10	$6+\sqrt{8}$	15	$6+3\sqrt{8}$	
Answers option																	
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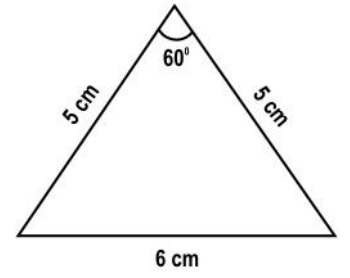
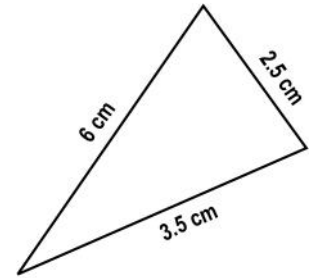
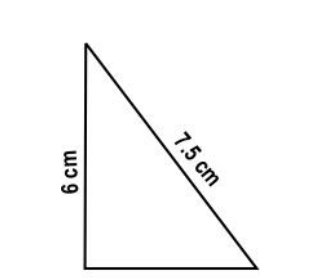
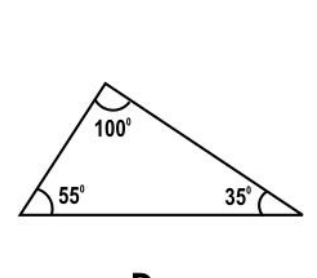
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
11	1_2 Mathematics 6919	Mensuration	<p>In the following figure PR <math>\parallel</math> AC, QP <math>\parallel</math> AB and RQ <math>\parallel</math> BC.</p> <p>If the perimeter of ABC is 24 cm, the perimeter of PQR will be</p>		C											
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S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
12	1_2 Mathematics 6920	Mensuration	<p>The solid shown here is made up of unit cubes of side 'a' cm. Black squares of side 'b' cm are painted <u>on the front and back faces</u> of each unit as shown.</p> <p>The remaining area of the exposed part of the solid (in <math>\text{cm}^2</math>) is</p>		D											
<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>8a^2 - 3b^2</math></td> <td><math>6a^2 - 3b^2</math></td> <td><math>8a^2 - 6b^2</math></td> <td><math>14a^2 - 6b^2</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	$8a^2 - 3b^2$	$6a^2 - 3b^2$	$8a^2 - 6b^2$	$14a^2 - 6b^2$
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$8a^2 - 3b^2$	$6a^2 - 3b^2$	$8a^2 - 6b^2$	$14a^2 - 6b^2$													



S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
13	1_2 Mathematics 6924	Mensuration	The height of triangle PQR is double the height of triangle ABC, while the base of triangle ABC is double the base of triangle PQR. The ratio of the areas of triangles ABC and PQR will be		A											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>01:01</td> <td>01:02</td> <td>02:01</td> <td>02:03</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	01:01	01:02	02:01	02:03
Answers option																
Option A	Option B	Option C	Option D													
01:01	01:02	02:01	02:03													

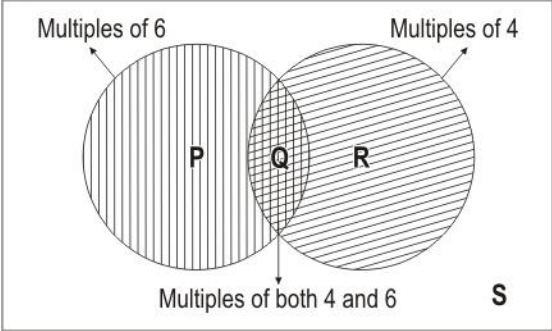
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
14	1_2 Mathematics 6926	Mensuration	Which of the following is NOT a correct way of finding the area of the <u>square</u> frame shown below.		C												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>52.2^2 - 47.8^2</math></td> <td><math>2 \times \{(52.2 \times 2.2) + (47.8 \times 2.2)\}</math></td> <td><math>52.2 \times 4.4 \times 2 + 47.8 \times 4.4 \times 2</math></td> <td><math>100 \times (52.2 - 47.8)</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	$52.2^2 - 47.8^2$	$2 \times \{(52.2 \times 2.2) + (47.8 \times 2.2)\}$	$52.2 \times 4.4 \times 2 + 47.8 \times 4.4 \times 2$	$100 \times (52.2 - 47.8)$	
Answers option																	
Option A	Option B	Option C	Option D														
$52.2^2 - 47.8^2$	$2 \times \{(52.2 \times 2.2) + (47.8 \times 2.2)\}$	$52.2 \times 4.4 \times 2 + 47.8 \times 4.4 \times 2$	$100 \times (52.2 - 47.8)$														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
15	2_10 Mathematics 5848	Mensuration	The measurements of ONLY ONE of the triangles shown below can be correct. Which one is it? (REMEMBER, the figures are NOT to scale)		C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
 <p style="text-align: center;"><b>A</b></p>	 <p style="text-align: center;"><b>B</b></p>	 <p style="text-align: center;"><b>C</b></p>	 <p style="text-align: center;"><b>D</b></p>		

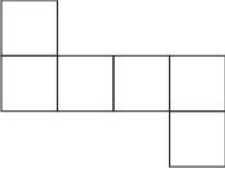
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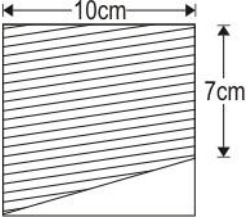
Subject: Mathematics

Grade: 8<sup>th</sup>

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
1	3_18 Mathematics 3369	Mensuration	EVERY number in area Q must be divisible by		B												
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Answers option																	
Option A	Option B	Option C	Option D														
10	12	16	24														


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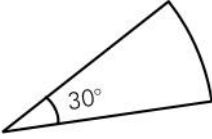
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2	3_18 Mathematics 3371	Mensuration	<p>The shape given below is made up of identical small squares.</p> <p>If the area of the whole shape is <math>24 \text{ cm}^2</math>, what is its perimeter?</p>		B		
<b>Answers option</b>							
Option A		Option B	Option C	Option D	24 cm	28 cm	48 cm

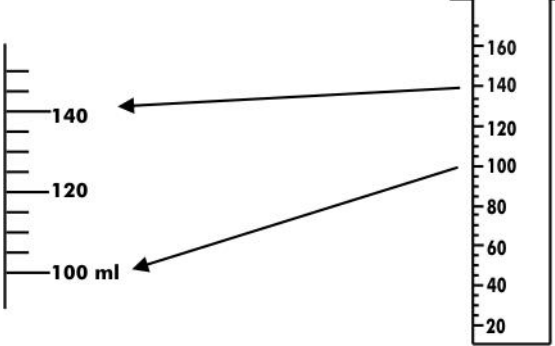
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)										
3	3_18 Mathematics 3373	Mensuration	What is the area of the shaded part of the SQUARE shown below?		C										
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>35 sq cm</td> <td>70 sq cm</td> <td>85 sq cm</td> <td>93 sq cm</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	35 sq cm	70 sq cm
Answers option															
Option A	Option B	Option C	Option D												
35 sq cm	70 sq cm	85 sq cm	93 sq cm												

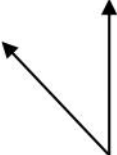
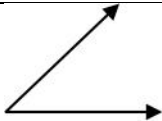
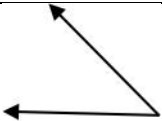
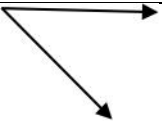
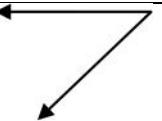
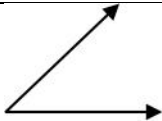
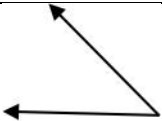
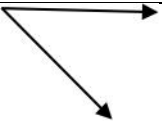
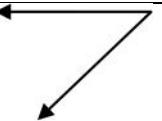
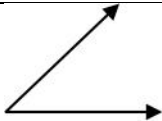
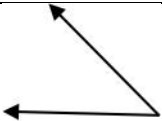
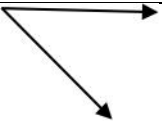
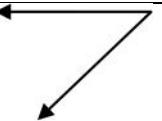
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
4	3_18 Mathematics 3381	Mensuration	In a triangle PQR, $\angle Q = 50^\circ$ and $\angle R = 75^\circ$ . Which of these statements is true about the sides of the triangle?	In a triangle PQR $\angle Q = 50^\circ$ and $\angle R = 75^\circ$ . Which of these statements is true about the sides of the triangle?	A												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>PR &lt; QR</td> <td>QR = PQ</td> <td>PQ &lt; PR</td> <td>PQ &lt; QR</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	PR < QR	QR = PQ	PQ < PR	PQ < QR	
Answers option																	
Option A	Option B	Option C	Option D														
PR < QR	QR = PQ	PQ < PR	PQ < QR														

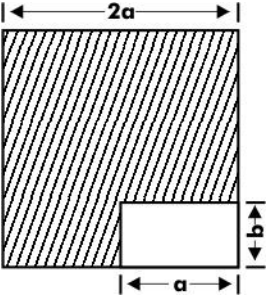


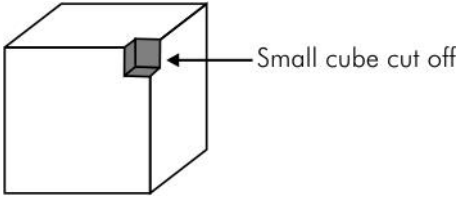
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
5	3_18 Mathematics 3384	Mensuration	<p>Frostee ice cream packs are available in two different sizes as shown below.</p> <p>Abbas needs 10 litres of vanilla ice cream for a party. What is the MINIMUM cost at which Abbas can get enough ice cream for his party?</p>		A												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>Rs. 340</td> <td>Rs. 350</td> <td>Rs. 400</td> <td>Rs. 450</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	Rs. 340	Rs. 350	Rs. 400	Rs. 450
Answers option																	
Option A	Option B	Option C	Option D														
Rs. 340	Rs. 350	Rs. 400	Rs. 450														

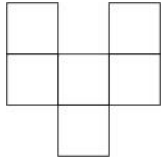
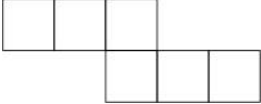
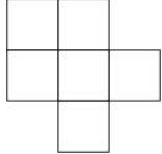
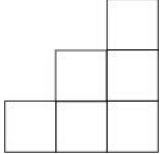
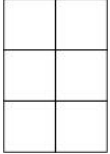
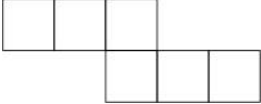
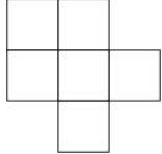
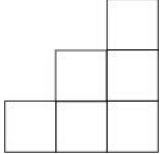
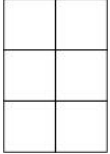
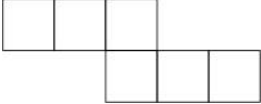
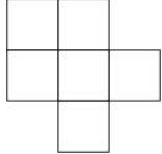
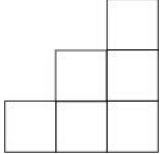
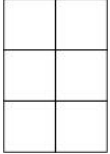
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
6	1_4 Mathematics 7579	Mensuration	How many pieces exactly like this one are needed to form a complete circle (circular region)?		D												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>8</td> <td>10</td> <td>12</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	6	8	10	12
Answers option																	
Option A	Option B	Option C	Option D														
6	8	10	12														

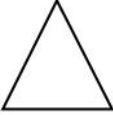
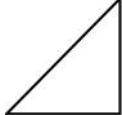
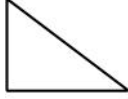
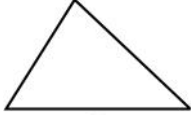
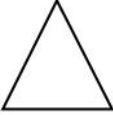
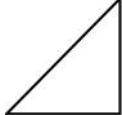
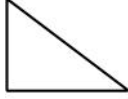
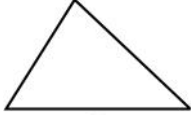
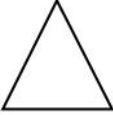
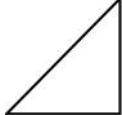
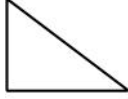
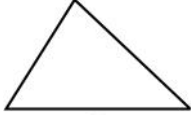
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
7	1_4 Mathematics 7583	Mensuration	<p>A part of one side of a vessel is shown below.</p> <p>Using this beaker which of these measurements can be made EXACTLY?</p>		C												
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Answers option																	
Option A	Option B	Option C	Option D														
121.5 ml	124 ml	125 ml	128 ml														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
8	1_4 Mathematics 7584	Mensuration	If the above figure is turned by 270° in an ANTICLOCKWISE direction, which of these would be the result?		A											
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Answers option																
Option A	Option B	Option C	Option D													
 <p><b>A</b></p>	 <p><b>B</b></p>	 <p><b>C</b></p>	 <p><b>D</b></p>													

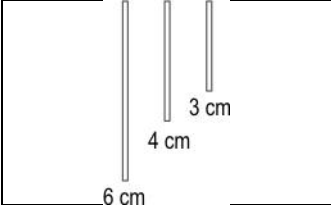
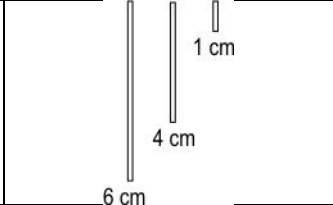
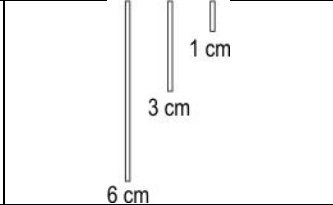
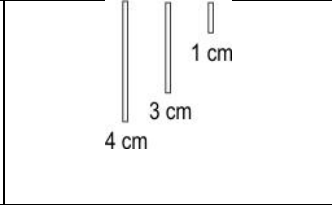
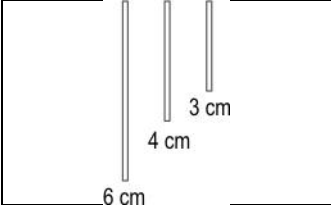
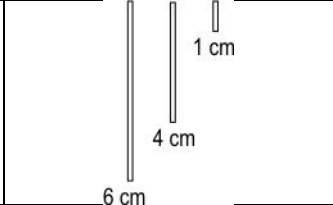
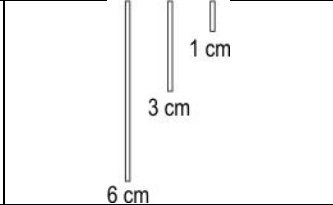
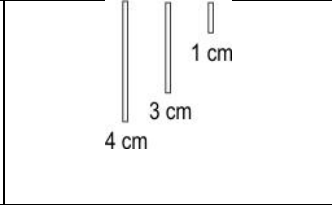
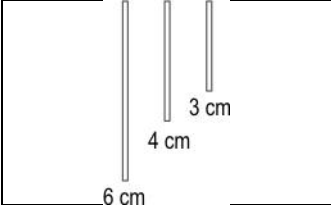
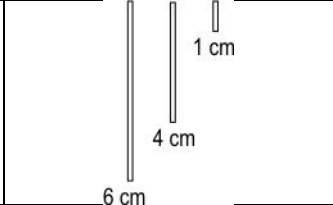
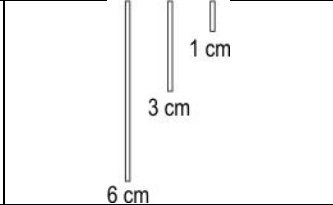
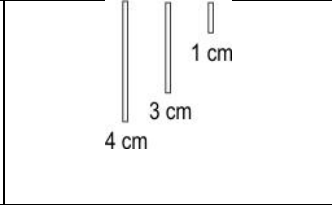
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
9	1_4 Mathematics 7586	Mensuration	What is the area of the shaded part of the square?		C											
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>2a^2 - ab</math></td> <td><math>4a - ab</math></td> <td><math>4a^2 - ab</math></td> <td><math>2a^2 + ab</math></td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	$2a^2 - ab$	$4a - ab$	$4a^2 - ab$
Answers option																
Option A	Option B	Option C	Option D													
$2a^2 - ab$	$4a - ab$	$4a^2 - ab$	$2a^2 + ab$													

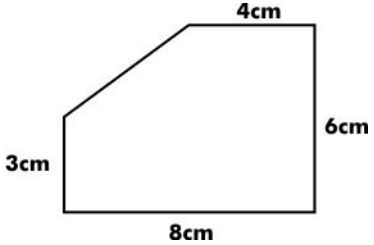
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
10	1_4 Mathematics 7589	Mensuration	<p>A small cube is cut off from a larger cube as shown below.</p> <p>For the ORIGINAL CUBE, which of the following will remain unchanged</p>		B												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4" data-bbox="579 922 1892 963">Answers option</th> </tr> <tr> <th data-bbox="579 963 907 1003">Option A</th> <th data-bbox="907 963 1234 1003">Option B</th> <th data-bbox="1234 963 1562 1003">Option C</th> <th data-bbox="1562 963 1892 1003">Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="579 1003 907 1044">the volume</td> <td data-bbox="907 1003 1234 1044">the total surface area</td> <td data-bbox="1234 1003 1562 1044">the number of edges</td> <td data-bbox="1562 1003 1892 1044">the number of corners</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	the volume	the total surface area	the number of edges	the number of corners
Answers option																	
Option A	Option B	Option C	Option D														
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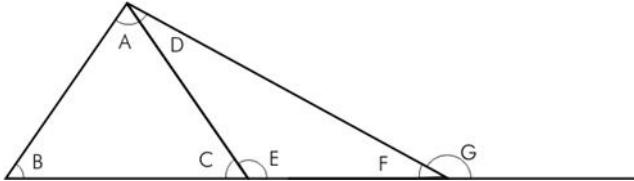
S. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option- A,B,C,D)												
11	1_4 Mathematics 7590	Mensuration	Which figure below has the same perimeter as?		A												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4" data-bbox="527 870 1845 911">Answers option</th> </tr> <tr> <th data-bbox="527 911 856 951">Option A</th> <th data-bbox="856 911 1186 951">Option B</th> <th data-bbox="1186 911 1516 951">Option C</th> <th data-bbox="1516 911 1845 951">Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="527 951 856 1107">  </td> <td data-bbox="856 951 1186 1107">  </td> <td data-bbox="1186 951 1516 1107">  </td> <td data-bbox="1516 951 1845 1107">  </td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D				
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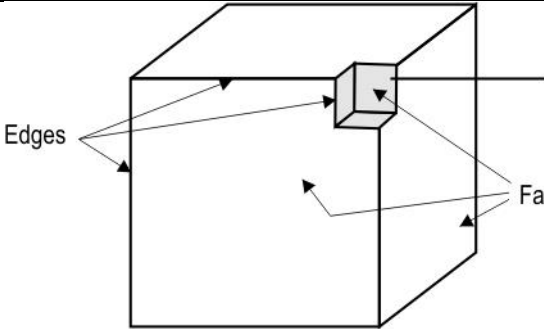
S. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
12	1_4 Mathematics 7592	Mensuration	The three sides of which of these triangles could be 9, 12 and 15 units?		C											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4" data-bbox="527 724 1843 764">Answers option</th> </tr> <tr> <th data-bbox="527 764 856 805">Option A</th> <th data-bbox="856 764 1186 805">Option B</th> <th data-bbox="1186 764 1516 805">Option C</th> <th data-bbox="1516 764 1843 805">Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="527 805 856 954">  <b>A</b> </td> <td data-bbox="856 805 1186 954">  <b>B</b> </td> <td data-bbox="1186 805 1516 954">  <b>C</b> </td> <td data-bbox="1516 805 1843 954">  <b>D</b> </td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	 <b>A</b>	 <b>B</b>	 <b>C</b>	 <b>D</b>
Answers option																
Option A	Option B	Option C	Option D													
 <b>A</b>	 <b>B</b>	 <b>C</b>	 <b>D</b>													



S. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
13	1_4 Mathematics 7595	Mensuration	A triangle can be formed using which of the following sets of sticks?		A											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="527 737 856 940">  </td> <td data-bbox="856 737 1186 940">  </td> <td data-bbox="1186 737 1516 940">  </td> <td data-bbox="1516 737 1845 940">  </td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D				
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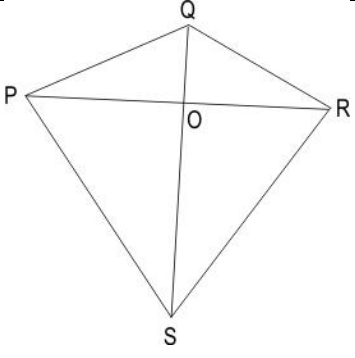
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
14	1_4 Mathematics 7600	Mensuration	What is the perimeter of the figure shown below?		C												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4" data-bbox="573 883 1877 922">Answers option</th> </tr> <tr> <th data-bbox="573 922 898 961">Option A</th> <th data-bbox="898 922 1224 961">Option B</th> <th data-bbox="1224 922 1549 961">Option C</th> <th data-bbox="1549 922 1877 961">Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="573 961 898 1000">21 units</td> <td data-bbox="898 961 1224 1000">24 units</td> <td data-bbox="1224 961 1549 1000">26 units</td> <td data-bbox="1549 961 1877 1000">28 units</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	21 units	24 units	26 units	28 units
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Option A	Option B	Option C	Option D														
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S. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A,B,C,D)												
15	1_4 Mathematics 7605	Mensuration	In the above figure, which of these will NOT equal 180°?		D												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>\angle A + \angle B + \angle C</math></td> <td><math>\angle F + \angle G</math></td> <td><math>\angle A + \angle B + \angle D + \angle F</math></td> <td><math>\angle E + \angle A + \angle B</math></td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	$\angle A + \angle B + \angle C$	$\angle F + \angle G$	$\angle A + \angle B + \angle D + \angle F$	$\angle E + \angle A + \angle B$
Answers option																	
Option A	Option B	Option C	Option D														
$\angle A + \angle B + \angle C$	$\angle F + \angle G$	$\angle A + \angle B + \angle D + \angle F$	$\angle E + \angle A + \angle B$														

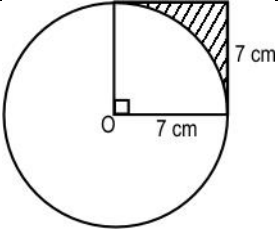
S. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C, D)											
1	2_10 Mathematics 5859	MENSURATION	<p>A small cube is cut off from a larger cube as shown below</p> <p>What is the number of FACES and EDGES in the cut cube as shown above?</p>		B											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>Faces: 6 Edges: 12</td> <td>Faces: 9 Edges: 21</td> <td>Faces: 9 Edges: 12</td> <td>Faces: 6 Edges: 18</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	Faces: 6 Edges: 12	Faces: 9 Edges: 21	Faces: 9 Edges: 12	Faces: 6 Edges: 18
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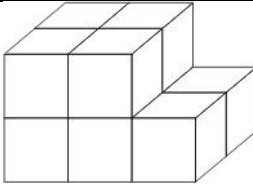
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
2	2_10 Mathematics 5865	MENSURATION	What is the area of this shape?		B											
<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>19 sq. cm</td> <td>20 sq. cm</td> <td>21 sq. cm</td> <td>24 sq. cm</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	19 sq. cm	20 sq. cm	21 sq. cm	24 sq. cm
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S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
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3	<p style="text-align: center;"><b>2_10 Mathematics 5872</b></p>	MENSURATION	<p>The diagonals of quadrilateral PQRS intersect at O.</p> <p>Which of the following is NOT a correct way of finding the Area of quadrilateral PQRS?</p>		D											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>Area(<math>\triangle PQR</math>) + Area(<math>\triangle PSR</math>)</td> <td>Area(<math>\triangle POS</math>) + Area(<math>\triangle SOR</math>) + Area(<math>\triangle PQR</math>)</td> <td>Area(<math>\triangle POQ</math>) + Area(<math>\triangle ROS</math>) + Area(<math>\triangle ROQ</math>) + Area(<math>\triangle POS</math>)</td> <td>Area(<math>\triangle PQR</math>) + Area(<math>\triangle PQS</math>) + Area(<math>\triangle SOR</math>)</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	Area( $\triangle PQR$ ) + Area( $\triangle PSR$ )	Area( $\triangle POS$ ) + Area( $\triangle SOR$ ) + Area( $\triangle PQR$ )	Area( $\triangle POQ$ ) + Area( $\triangle ROS$ ) + Area( $\triangle ROQ$ ) + Area( $\triangle POS$ )	Area( $\triangle PQR$ ) + Area( $\triangle PQS$ ) + Area( $\triangle SOR$ )
Answers option																
Option A	Option B	Option C	Option D													
Area( $\triangle PQR$ ) + Area( $\triangle PSR$ )	Area( $\triangle POS$ ) + Area( $\triangle SOR$ ) + Area( $\triangle PQR$ )	Area( $\triangle POQ$ ) + Area( $\triangle ROS$ ) + Area( $\triangle ROQ$ ) + Area( $\triangle POS$ )	Area( $\triangle PQR$ ) + Area( $\triangle PQS$ ) + Area( $\triangle SOR$ )													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
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4	2_10 Mathematics 5874	MENSURATION	If the area of a circle of radius 7 cm is 154 sq cm, what is the area of the shaded portion of the figure shown below?		B										
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>9 sq cm</td> <td>10.5sq cm</td> <td>12.25 sq cm</td> <td>16.5sq cm</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	9 sq cm	10.5sq cm
Answers option															
Option A	Option B	Option C	Option D												
9 sq cm	10.5sq cm	12.25 sq cm	16.5sq cm												

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
5	3_18 Mathematics 3351	MENSURATION	The solid shown below is made of 10 small cubes of side 2 cm each. What is the total volume of the solid?		D


		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		20 sq cm	20 cu cm	40 sq cm	80 cu cm

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
6	<b>3_18 Mathematics 3356</b>	MENSURATION	Which of the following can NOT be used to measure the capacity of a container?		C
		<b>Answers option</b>			
		Option A	Option B	Option C	Option D
		dm <sup>3</sup>	litre	cm <sup>2</sup>	ml

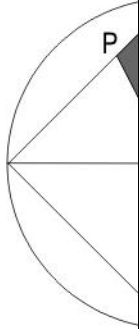


S . N	Folder Number & Question Code	Topic	Qu est ion wit h An sw er Op tio ns	Im age (If An y)	C o r r e c t A n s w e r ( O p t i o n - A , B , C
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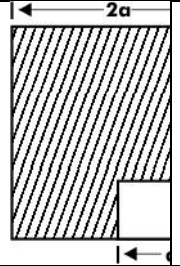
7	3_18 Mathematics 3368	MENSURATION		The box is divided into four separate areas P, Q, R and S. In which area should be placed?	Multi	D								
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Q</td> <td>R</td> <td>S</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D
Answers option														
Option A	Option B	Option C	Option D											
P	Q	R	S											
S.No.	Folder Number & Question Code	Topic	Question with	Image (If Any)	C o n t e									

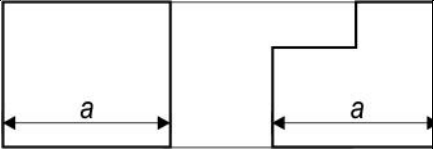
			<b>An sw er Op tio ns</b>		c t A n s w e r ( C o p y r i g h t - A , E , C , D )
8	<p style="text-align: center;"><b>1_4 Mathematics 7607</b></p>	Mensuration	Wh at is the area of the sha ded part of the rect	 <p style="text-align: center;"><b>3cm</b></p>	C

				angle?														
				<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>4 sq cm</td> <td>8 sq cm</td> <td>9 sq cm</td> <td>12 sq cm</td> </tr> </tbody> </table>			Answers option				Option A	Option B	Option C	Option D	4 sq cm	8 sq cm	9 sq cm	12 sq cm
Answers option																		
Option A	Option B	Option C	Option D															
4 sq cm	8 sq cm	9 sq cm	12 sq cm															
S. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A, B, C)													

					, D )												
9	1_4 Mat he mat ics 761 4	Mensuration	What is the area of the shaded portion if the area of the circle is $64 \text{ cm}^2$ Note: PQ is a straight line passing through the centre of the circle.		B												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>8 \text{ cm}^2</math></td> <td><math>16 \text{ cm}^2</math></td> <td><math>16.8 \text{ cm}^2</math></td> <td><math>28 \text{ cm}^2</math></td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	$8 \text{ cm}^2$	$16 \text{ cm}^2$	$16.8 \text{ cm}^2$	$28 \text{ cm}^2$
Answers option																	
Option A	Option B	Option C	Option D														
$8 \text{ cm}^2$	$16 \text{ cm}^2$	$16.8 \text{ cm}^2$	$28 \text{ cm}^2$														

S.No	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
10	2_11 Mathematics 5281	Mensuration	A part of one side of a vessel is shown below. Using this beaker which of these measurements can be made EXACTLY?		C											
		<table border="1"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>121.5 ml</td> <td>124 ml</td> <td>125 ml</td> <td>128 ml</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	121.5 ml	124 ml	125 ml
Answers option																
Option A	Option B	Option C	Option D													
121.5 ml	124 ml	125 ml	128 ml													
S.No	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer											

					(Option-A,B,C,D)
11	2_11 Mathematics 5283	Mensuration	What is the area of the shaded part of the square?		C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
$2a^2 - ab$	$4a - ab$	$4a^2 - ab$	$2a^2 + ab$		

S.No	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A,B,C,D)
12	2_11 Mathematics 5267	Mensuration	Consider the two figures given below. Which of the following is true about their areas and		B

			perimeters ?		
<b>Answers option</b>					
Option A		Option B		Option C	
The areas are the same, perimeters are different.		The areas are different, perimeters are the same.		The areas and perimeters are both different.	
				Option D	
				The areas and perimeters are both the same.	

S.No	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C, D)
13	2_11 Mathematics 4417	Mensuration	Of the pieces shown here, which two could form a semicircle when placed next to each other with		B



			their edges touching ?				
<b>Answers option</b>							
Option A		Option B		Option C		Option D	
Z and W		W and Y		Y and Z		Z and X	


**Set- 15**

**Subject – Mathematics**

**Class- 8<sup>th</sup>**


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	<b>1_4 Mathematics 7596</b>	Playing with numbers	Which of these would be equal to the number itself?		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
50% of 50% of a number		100% of 200% of a number	75% of 25% of a number	200% of 50% of a number	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
2	1_4 Mathematics 7575	Playing with numbers	23418 is exactly divisible by 6. Which of the following numbers will leave a remainder 2 when divided by 6?		C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
23412		23416	23420	23422	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
3	1_4 Mathematics 7576	Playing with numbers	The average height of Radhika, Gopu, Ashish and Komal shown above, is 118 cm. What is the SUM of their heights?		<b>B</b>
<b>Answers option</b>					
Option A 156 cm		Option B 472 cm	Option C 590 cm	Option D We can't say from the given information.	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
4	1_4 Mathematics 7577	Playing with numbers	Which of the following lists has numbers arranged in INCREASING order?		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
-1/8, -1/7, 1/7, 1/8		1/7, -1/8, 1/7, 1/8	-1/8, -1/7, 1/8, 1/7	-1/7, -1/8, 1/8, 1/7	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
5	1_4 Mathematics 7580	Playing with numbers	$9.03 \div 899.8$ is closest to		A
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
0.01	0.001	1	100		

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
6	1_2 Mathematics 6913	Playing with Numbers	<p>n! is defined as the product of the first n natural numbers. For example, <math>4! = 1 \times 2 \times 3 \times 4 = 24</math>.</p> <p>What is?</p>		C												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4" data-bbox="583 932 1911 974">Answers option</th> </tr> <tr> <th data-bbox="583 974 915 1016">Option A</th> <th data-bbox="915 974 1247 1016">Option B</th> <th data-bbox="1247 974 1579 1016">Option C</th> <th data-bbox="1579 974 1911 1016">Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="583 1016 915 1091">40320</td> <td data-bbox="915 1016 1247 1091">720</td> <td data-bbox="1247 1016 1579 1091">56</td> <td data-bbox="1579 1016 1911 1091">8</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	40320	720	56	8
Answers option																	
Option A	Option B	Option C	Option D														
40320	720	56	8														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
7	1_4 Mathematics 7581	Playing with numbers	Which of the following will have the maximum number of 6's when written in decimal form?		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
666/1000	3/6	3/5	2/3		



S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
8	1_4 Mathematics 7582	Playing with numbers	If n is a negative number, which of the following would be a positive number for ALL values of n?		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
$2n$		$n + 5$	$n^3$	$3n^4$	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
9	1_4 Mathematics 7588	Playing with numbers	What is $7799 \div 19$ ?		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
Quotient = 41, Remainder = 0		Quotient = 41, Remainder = 9	Quotient = 41.4, Remainder = 14	Quotient = 410, Remainder = 9	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
10	1_4 Mathematics 7612	Playing with numbers	x is an integer and $5 - x > 15$ . The largest possible value that x can take is		C	
<b>Answers option</b>						
Option A		Option B	Option C	Option D		
10		-10	-11	15		

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
11	1_4 Mathematics 7613	Playing with numbers	If the pattern above is continued, what will it look like between 93 and 95?		C											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td data-bbox="541 781 869 898"> </td> <td data-bbox="869 781 1199 898"> </td> <td data-bbox="1199 781 1528 898"> </td> <td data-bbox="1528 781 1858 898"> </td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D				
Answers option																
Option A	Option B	Option C	Option D													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
12	1_4 Mathematics 7591	Playing with numbers	Which of these numbers will reduce the most in value if the 7 in it is changed to a 6?		C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
$7.045 \times 10^2$	$375.6 \times 10^0$	$0.72 \times 10^4$	$3.00007 \times 10^5$		


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
13	1_4 Mathematics 7593	Playing With numbers	How many times would you have written the letter 'c' if you complete writing this pattern up to the end of the TENTH row?	<pre> a aba abcba abcdcba ⋮ </pre>	B
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
10	15	19	45		

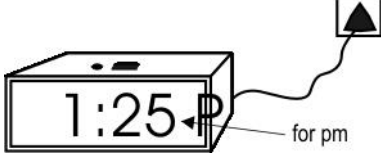
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
14	1_4 Mathematics 7594	Playing With numbers	In which row will there be 49 letters?	a aba abcba abcdcba ⋮	C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
7th	24th	25th	49th		

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
15	1_2 Mathematics 6897	Playing with Numbers	The sum of two numbers is -6.5 and their difference is 4.5. What are the numbers?		C
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
-1.25 and -5.25	1.25 and -5.25	-1 and -5.5	1 and -7.5		




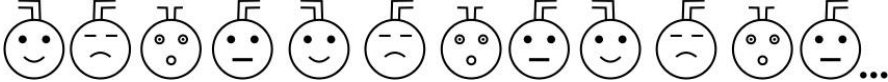












Subject: Mathematics  
Grade: 8<sup>th</sup>


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
1	2_10 Mathematics 5875	PLAYING WITH NUMBERS	<p>Answer the question based on the given information. The digital clock shown below displays the time from 12:00 to 11:59.</p> <p>At any time, the SUM OF THE DIGITS displayed can be calculated. For example, the sum of the digits at 1:25 is <math>1+2+5 = 8</math>. At 10:25, it is <math>1+0+2+5 = 8</math>. At what time will the sum of the digits in the time displayed be MAXIMUM?</p>		D												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>12:00:00</td> <td>11:59:00 AM</td> <td>10:59:00 AM</td> <td>9:59:00 AM</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	12:00:00	11:59:00 AM	10:59:00 AM	9:59:00 AM	
Answers option																	
Option A	Option B	Option C	Option D														
12:00:00	11:59:00 AM	10:59:00 AM	9:59:00 AM														


S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
2	2_10 Mathematics 5876	PLAYING WITH NUMBERS	<p>Answer the question based on the given information. The digital clock shown below displays the time from 12:00 to 11:59.</p> <p>At 1:01, 2:22, 3:53, etc. the time reads the same FORWARDS as well as BACKWARDS. From 12:00 noon to 11:59 pm, how many times will the clock show a time reading the same backwards and forwards?</p> <p>The clock does not display a zero before hours that do not require it, hence 1:01 should be counted, while 1:10 should not.</p>		C												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>24</td> <td>57</td> <td>71</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	12	24	57	71	
Answers option																	
Option A	Option B	Option C	Option D														
12	24	57	71														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
3	2_10 Mathematics 5877	PLAYING WITH NUMBERS	Latif's Maths teacher asks him to think of any whole number from 1 to 10. She then asks him to do the following: 1. Double this number. 2. Add 4 to the result. 3. Multiply the sum by 5. If we call the number Latif thinks of N, the number he gets at the end will be		A											
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><math>(N + 2) \times 10</math></td> <td><math>N + 4 \times 2 \times 5</math></td> <td><math>(N \times 2) + (4 \times 5)</math></td> <td><math>10N + 4</math></td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	$(N + 2) \times 10$	$N + 4 \times 2 \times 5$	$(N \times 2) + (4 \times 5)$	$10N + 4$
Answers option																
Option A	Option B	Option C	Option D													
$(N + 2) \times 10$	$N + 4 \times 2 \times 5$	$(N \times 2) + (4 \times 5)$	$10N + 4$													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
4	2_10 Mathematics 5879	PLAYING WITH NUMBERS	A few drops of water fell on Pratik's phone diary and wiped out most of the digits of his friend's phone number. This is what remains: The only other thing Pratik remembers is that the sum of any three consecutive digits in the number was 17. Which of these is the digit in the thousand's place in the number?	 <i>Ahmed Shah</i>	B												
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>6</td> <td>7</td> <td>8</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	3	6	7	8	
Answers option																	
Option A	Option B	Option C	Option D														
3	6	7	8														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
5	2_10 Mathematics 5882	PLAYING WITH NUMBERS	If the above pattern of faces continues, what will the 1001 <sup>st</sup> face be?		D												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td><b>A</b> </td> <td><b>B</b> </td> <td><b>C</b> </td> <td><b>D</b> </td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	<b>A</b> 	<b>B</b> 	<b>C</b> 	<b>D</b> 
Answers option																	
Option A	Option B	Option C	Option D														
<b>A</b> 	<b>B</b> 	<b>C</b> 	<b>D</b> 														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
6	2_10 Mathematics 5883	PLAYING WITH NUMBERS	<p>Digital displays are often made using 7-segment Light Emitting Diodes (LEDs) like the one shown below:</p> <p>Depending on which of the seven segments called a, b, c.. g gets power, different numbers or letters are displayed. For example, if segments a, b, d, e and g are lit, the number 2 is displayed (shown above, right side figure). Study the above figures carefully and answer the question.</p> <p>Which segments must receive power if the letter F is to be displayed?</p>		B											
<table border="1" style="margin: auto;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> </thead> <tbody> <tr> <td>Option A</td> <td>Option B</td> <td>Option C</td> <td>Option D</td> </tr> <tr> <td>a, b, d, f</td> <td>a, e, f, g</td> <td>c, d, e, g</td> <td>b, c, d</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	a, b, d, f	a, e, f, g	c, d, e, g	b, c, d
Answers option																
Option A	Option B	Option C	Option D													
a, b, d, f	a, e, f, g	c, d, e, g	b, c, d													

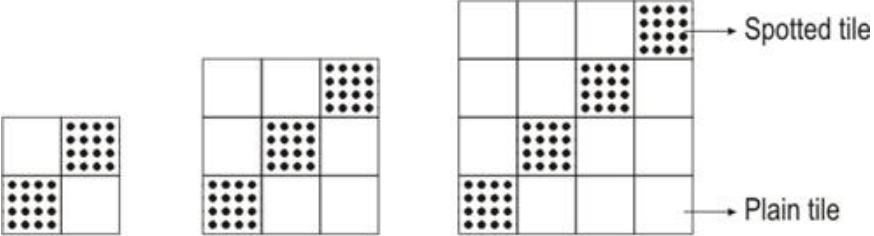
S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
7	2_10 Mathematics 5884	PLAYING WITH NUMBERS	<p>Digital displays are often made using 7-segment Light Emitting Diodes (LEDs) like the one shown below:</p> <p>Depending on which of the seven segments called a, b, c .. g gets power, different numbers or letters are displayed. For example, if segments a, b, d, e and g are lit, the number 2 is displayed (shown above, right side figure). Study the above figures carefully and answer the question.</p> <p>The number of LIT segments in 1 is 2. In 2, the number of lit segments is 5. Thus the INCREASE in the number of lit segments is 3. Between which two numbers does the number of lit segments INCREASE THE MOST?</p>	 <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> 0 1 2 3 4 5 6 7 8 9 </div>	D											
<table border="1" style="margin: auto;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>0 and 1</td> <td>1 and 2</td> <td>4 and 5</td> <td>7 and 8</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	0 and 1	1 and 2	4 and 5	7 and 8
Answers option																
Option A	Option B	Option C	Option D													
0 and 1	1 and 2	4 and 5	7 and 8													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
8	3_18 Mathematics 3357	PLAYING WITH NUMBERS	Ananth ran a 4 km stretch at an average speed of 10 km an hour. If he started his run at 5:00 AM, at what time did he finish?		A	
<b>Answers option</b>						
Option A		Option B	Option C	Option D		
5:24 AM	5:40 AM	7:25 AM	7:30 AM			




S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
9	3_18 Mathematics 3361	PLAYING WITH NUMBERS	The sum of three numbers is even. If the first number is odd, what can be said about the other two?		B
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
Both of them are odd		One of them is even and the other odd	Both of them are even	We can't say for sure	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
10	3_18 Mathematics 3370	PLAYING WITH NUMBERS	$7.32 \times 10^{-2}$ is nearly equal to		D
<b>Answers option</b>					
Option A		Option B	Option C	Option D	
-140		700	0.007	0.07	

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
11	<b>3_18</b> <b>Mathematics</b> <b>3378</b>	PLAYING WITH NUMBERS	See the pattern of plain tiles and spotted tiles in the squares below to answer question. What will be the TOTAL number of spotted tiles needed to complete the patterns up to the sixth square? (including the first three)	 <p style="text-align: center;"> <span style="margin-right: 100px;">Square 1</span> <span style="margin-right: 100px;">Square 2</span> <span>Square 3</span> </p>	B												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="padding: 5px;">Answers option</th> </tr> <tr> <th style="padding: 5px;">Option A</th> <th style="padding: 5px;">Option B</th> <th style="padding: 5px;">Option C</th> <th style="padding: 5px;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">20</td> <td style="text-align: center; padding: 5px;">27</td> <td style="text-align: center; padding: 5px;">30</td> <td style="text-align: center; padding: 5px;">36</td> </tr> </tbody> </table>						Answers option				Option A	Option B	Option C	Option D	20	27	30	36
Answers option																	
Option A	Option B	Option C	Option D														
20	27	30	36														

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
12	3_18 Mathematics 3379	PLAYING WITH NUMBERS	See the pattern of plain tiles and spotted tiles in the squares below to answer the question. How many PLAIN tiles will be needed for the twentieth square?	<p>Square 1      Square 2      Square 3</p> <p>→ Spotted tile → Plain tile</p>	C											
<table border="1" style="margin: auto;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">21</td> <td style="text-align: center;">400</td> <td style="text-align: center;">420</td> <td style="text-align: center;">441</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	21	400	420	441
Answers option																
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21	400	420	441													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)															
13	3_18 Mathematics 3380	PLAYING WITH NUMBERS	Abdul pressed 6 buttons on his calculator and got the result as 27. The buttons that he pressed are shown below (in order). The first button is hidden: Which button did Abdul press first?		C															
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td> <table border="1" style="margin: auto;"> <tr><td>9</td></tr> </table> <b>A.</b> </td> <td> <table border="1" style="margin: auto;"> <tr><td>6</td></tr> </table> <b>B.</b> </td> <td> <table border="1" style="margin: auto;"> <tr><td>5</td></tr> </table> <b>C.</b> </td> <td> <table border="1" style="margin: auto;"> <tr><td>4</td></tr> </table> <b>D.</b> </td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	<table border="1" style="margin: auto;"> <tr><td>9</td></tr> </table> <b>A.</b>	9	<table border="1" style="margin: auto;"> <tr><td>6</td></tr> </table> <b>B.</b>	6	<table border="1" style="margin: auto;"> <tr><td>5</td></tr> </table> <b>C.</b>	5	<table border="1" style="margin: auto;"> <tr><td>4</td></tr> </table> <b>D.</b>	4
Answers option																				
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9																				
6																				
5																				
4																				

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)											
14	1_2 Mathematics 6906	PLAYING WITH NUMBERS	<p>Sleeper Class coaches of the Indian Railways have a seat numbering arrangement as shown below.</p> <p>Each 'cubicle' seats 8 people as shown.</p> <p>Ramesh and his parents have 3 tickets and their seat numbers are 29, 30 and 31. What are their seats?</p>		B											
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>One aisle, one window, one middle seat.</td> <td>One middle, one aisle and one side seat.</td> <td>One aisle and two side seats.</td> <td>Two side seats and one window seat.</td> </tr> </tbody> </table>				Answers option				Option A	Option B	Option C	Option D	One aisle, one window, one middle seat.	One middle, one aisle and one side seat.	One aisle and two side seats.
Answers option																
Option A	Option B	Option C	Option D													
One aisle, one window, one middle seat.	One middle, one aisle and one side seat.	One aisle and two side seats.	Two side seats and one window seat.													

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
15	1_2 Mathematics 6928	PLAYING WITH NUMBERS	<p>The question is based on the following: 10 friends are playing a game. They have numbered themselves 1 to 10 and are standing in a circle. Now every third person starting from number 1 does the following: He comes forward, tells a joke and leaves the circle. After this, again the third person from the people remaining in the circle does the same, and so on till there is only one person left in the group.</p> <p>Thus, first No. 3 leaves then No. 6, etc. After No. 6, who will be the next 2 people to leave?</p>		C												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">Answers option</th> </tr> <tr> <th>Option A</th> <th>Option B</th> <th>Option C</th> <th>Option D</th> </tr> </thead> <tbody> <tr> <td>No. 9 and No. 12</td> <td>No. 8 and No. 1</td> <td>No. 9 and No. 2</td> <td>No. 9 and No. 4</td> </tr> </tbody> </table>					Answers option				Option A	Option B	Option C	Option D	No. 9 and No. 12	No. 8 and No. 1	No. 9 and No. 2	No. 9 and No. 4	
Answers option																	
Option A	Option B	Option C	Option D														
No. 9 and No. 12	No. 8 and No. 1	No. 9 and No. 2	No. 9 and No. 4														

**Set 17**

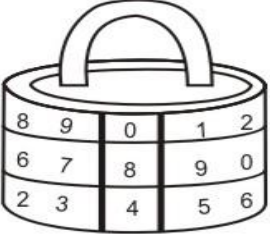
**Subject:** Mathematics

**Grade:** 8th

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
1	3_19 Mathematics  2766	Playing with numbers	The digits 1 to 8 appear once each in Razaq's 8-digit phone number. The sum of the first three digits is the same as that of the last 3 digits. All the even digits in the number come together. The largest total of two consecutive digits in the number is 13. Which of the following is Razaq's phone number?		C				
						<b>Answer Options</b>			
						<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>
						37426851	37642851	37462851	37462581
2	3_19 Mathematics 2763	Playing with numbers	Between 1 and 100, how many whole numbers are there which leave a remainder 1 when divided by 6, and also when divided by 10?		B				
						<b>Answer Options</b>			
						<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>
						4	3	2	1

3	5_29 &	Playing with	If m and n are two numbers such that $0 < m < 1$ and -	A
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	<b>1693</b>	<b>numbers</b>	$1 < n < 0$ , then their product will be			
		<b>Answer Options</b>				
		<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>	
		a number between 0 and -1	a number between 0 and 1	a number between -1 and -2	a number less than &ndash;2	
<b>4</b>	<b>5_26 &amp; 1702</b>	Playing with numbers	Starting from 1, what will be sum of the first 25 odd natural numbers?		<b>C</b>	
		<b>Answer Options</b>				
		<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>	
		25	125	625	2500	
<b>5</b>	<b>5_26 &amp; 1703</b>	<b>Playing with numbers</b>	Neeraj puts a new combination lock on a cupboard. The lock has 3 rotating rows with the digits 0 to 9 on each row. The correct 3-digit code has to be aligned vertically in the frame in order to open the lock. A month later, Neeraj forgets the code. He tries all possible combinations one by one, and does not try any combination twice. If each combination takes one second to try, what is the MAXIMUM amount of time he might have to spend before the lock opens?	 <p style="text-align: center;">Alignment of digits for the code 084</p>	<b>C</b>	
<b>6</b>	<b>5_29 Mathematics 1704</b>	<b>Playing with numbers</b>	After this, Neeraj decides to change the combination on the lock such that the sum of the three digits in the code is 3, his lucky number. How many different possible codes could he choose from?		<b>B</b>	
		<b>Answer Options</b>				
		<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>	
		10	6	4	3	

<b>7</b>	<b>5_28</b>	<b>Playing</b>	<b>What will be the value of <math>(3 + 2)</math> times <math>(10 - 4)</math></b>		<b>B</b>
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	<b>Mathematics 10036</b>	<b>with numbers</b>	<b>divide 2 &amp; -1</b>			
			<b>Answer Options</b>			
			<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>
			8	14	15	30
<b>8</b>	<b>5_28 Mathematics 10050</b>	<b>Playing with numbers</b>	Altaf picked up two number cards from the four cards shown below. He found that one of the remaining numbers was the sum, and the other was the difference of the two numbers he had picked			<b>C</b>
			<b>Answer Options</b>			
			<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>
			1 and 2	2 and 5	2 and 3	5 and 3
<b>9</b>	<b>5_28 Mathematics 10069</b>	<b>Playing with numbers</b>	Gina has a brief case which she can lock using a 3-digit code using any of the digits 1, 2, 3 and 4. How many different 3-digit codes can she form using these four digits?			<b>B</b>
			<b>Answer Options</b>			
			<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>
			3 &times; 4	4 &times; 4&times; 4	3 &times; 3 &times; 3 &times; 3	3 + 3 + 3
<b>10</b>	<b>5_28 Mathematics 10070</b>	<b>Playing with numbers</b>	A player's TOTAL score is calculated by adding each turn's score to the previous total. Which of the following could be Priyanka's score after 4 rounds of the game?			<b>D</b>
			<b>Answer Options</b>			
			<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>
			6	88	145	None


<b>11</b>	<b>5_28 Mathematics 10071</b>	<b>Playing with numbers</b>	What could be the MAXIMUM possible difference between the total scores of two players after 10 rounds of this game?		<b>B</b>	
		<b>Answer Options</b>				
		<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>	
		990	980	970	880	
<b>12</b>	<b>5_29 Mathematics 11400</b>	<b>Playing with numbers</b>	At any time, the SUM OF THE DIGITS displayed can be calculated. For example, the sum of the digits at 1:25 is $1 + 2 + 5 = 8$ . At 11:45, it is $1 + 1 + 4 + 5 = 11$ . At what time will the sum of the digits in the time displayed be MAXIMUM?		<b>D</b>	
		<b>Answer Options</b>				
		<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>	
		12:00	11:59	10:59	09:59	
<b>13</b>	<b>5_29 Mathematics 11401</b>	<b>Playing with numbers</b>	At 1:01, 2:22, 3:53, etc. the time reads the same FORWARDS as well as BACKWARDS. From 12:00 noon to 11:59 pm, how many times will the clock show a time reading the same backwards and forwards? (The clock does not display a zero before hours that do not require it, hence 1:01 should be counted, while 1:10 should not.)		<b>C</b>	
		<b>Answer Options</b>				
		<b>Options A</b>	<b>Options B</b>	<b>Options C</b>	<b>Options D</b>	
		12	24	57	71	

14	5_26 Mathematics 1665	Playing with numbers	-8 - (-4) & divided by (-2) is equal to			C	
			Answer Options				
			Options A	Options B	Options C	Options D	
			-10	-6	2	6	
15	5_29 & 11798	Playing with numbers	What is the quotient and remainder when 7799 is divided by 19?			D	
			Answer Options				
			Options A	Options B	Options C	Options D	
			Quotient = 41, Remainder = 0	Quotient = 41, Remainder = 9	Quotient = 41.4, Remainder = 14	Quotient = 410, Remainder = 9	

**SET 24**

**Subject: Mathematics**

**Grade: VIII**

S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)			
1	2_11 MATHEMATICS 4485	Comparing Quantities	Look at this tube of Glow Face cream being sold under a special offer:  How many grams of cream does the tube contain?		D			
				Answer Options				
				Option A		Option B	Option C	Option D
				30		37.5	120	150
2	2_11 MATHEMATICS 5310	Comparing Quantities	Anjana has 4 pencils in her box. Their average length is 10 cm. Which of the following is NOT POSSIBLE?		B			
				Answer Options				
				Option A		Option B	Option C	Option D
				The shortest pencil in the box is 2 cm long.		The longest pencil in the box is 8 cm long.	Two of the pencils are 10 cm each.	All the pencils are of the same length.

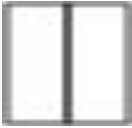

S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
3	2_11 MATHEMATICS 5326	Comparing Quantities	<p>Ayub drops a ball from a height of 6.25 metres to the flat ground below. After the third bounce, the ball rises to a height of 40 cm.</p> <p>The height to which the ball rises after each bounce is the SAME FRACTION of the height reached on its PREVIOUS BOUNCE. What is the fraction?</p>		B				
						Answer Options			
						Option A	Option B	Option C	Option D
						$\frac{1}{2}$	$\frac{2}{5}$	$\frac{5}{8}$	$\frac{39}{125}$
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
4	2_11 MATHEMATICS 5321	Comparing Quantities	<p>Mr. Kaul deposits a fixed amount of money for a 5 year period. Some details of the account (Interest compounded annually) are given below:</p> <p>Principal on which interest is computed for the first year : Rs 40000 .Interest</p>		C				

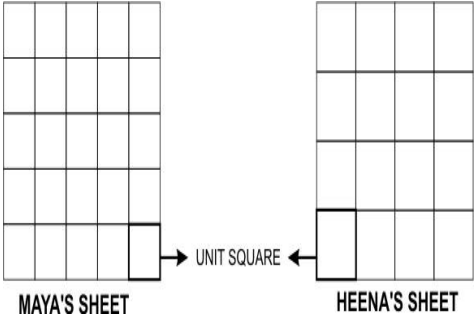
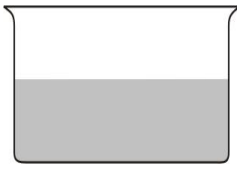
			<p>earned for the first year : Rs 2000 Interest earned for the second year : Rs 2100 Interest earned for the third year : Rs 2205 The amount (Principal) on which the interest for the fourth year will be calculated is</p>		
Answer Options					
		Option A	Option B	Option C	Option D
		2,205	40,000	46,305	46,615

S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
5	2_11 MATHEMATICS 5301	Comparing Quantities	Nalini had some shares which she sold when their price was 3.5 times the price at which she had bought them. Her profit from this transaction was		D
Answer Options					
		Option A	Option B	Option C	Option D
		3.5%	350%	25%	250%
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)

6	2_11 MATHEMATICS 5308	Comparing Quantities	Raj has two identical jugs, both completely filled with mixtures of mango pulp and milk. The ratio of mango pulp to milk in the first jug is 1 : 4 and in the second one it is 1: 3. Raj now pours the mixtures from both jugs into a large jar. The ratio of mango pulp to milk in this container is:	A							
								Answer Options			
								Option A	Option B	Option C	Option D
								9:31	7:12	2:7	1:7
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option- A,B,C,D)						
7	2_11 MATHEMATICS 4463	Comparing Quantities	Sona bought a T.V at nine - tenths of its actual price under a discount offer. How much discount did she get?	A							
								Answer Options			
								Option A	Option B	Option C	Option D
								10%	9%	1%	0.10%



S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
8	2_11 MATHEMATICS 4459	Comparing Quantities	If  is 25 %,  What is  ?		A				
						Answer Options			
						Option A	Option B	Option C	Option D
						$37\frac{1}{2}\%$	50%	$66\frac{3}{2}\%$	75%
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
9	2_11 MATHEMATICS 4461	Comparing Quantities	If 200% of $m = 50\%$ of $n$ , what is the relation between $m$ and $n$ ?		B				
						Answer Options			
						Option A	Option B	Option C	Option D
$m$ is 150 more than $n$	$m$ is one fourth of $n$	$m$ is 150 less than $n$	$m$ is four times $n$						

S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
10	2_11 MATHEMATICS 5330	Comparing Quantities	<p>Maya and Heena are each given a sheet of squared paper as shown below. They have to make patterns on these by covering each unit square with a different colour or design.</p> <p>Heena takes <math>1\frac{1}{2}</math> times as long to paint a unit square on her sheet than Maya takes to paint one on hers.</p> <p>If Maya finishes painting her sheet in 25 minutes, how long does Heena take to finish hers?</p>	 <p>MAYA'S SHEET</p> <p>HEENA'S SHEET</p>	A				
						Answer Options			
						Option A	Option B	Option C	Option D
			24 minutes	$37\frac{1}{2}$ minutes	16 minutes	25 minutes			
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
11	2_11 MATHEMATICS 4476	Comparing Quantities	<p>A pan is half-filled with a mixture of grape juice and sugar syrup in the ratio of 2:3. (by volume) If grape juice is poured</p>		B				

			into the pan till it is full, what part of the resulting mixture is grape juice?		
		Answer Options			
		Option A	Option B	Option C	Option D
		$\frac{1}{2}$	$\frac{7}{10}$	$\frac{4}{5}$	$\frac{4}{7}$
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
12	2_11 MATHEMATICS 5309	Comparing Quantities	A number x is increased by 20% to get another number y. By what percentage should y be decreased to get x?		C
		Answer Options			
		Option A	Option B	Option C	Option D
		About 22.5%	20%	About 16.7%	It will depend on the value of x.
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
13	2_10 MATHEMATICS 5904	Comparing Quantities	For a fixed Principal P and a fixed rate of annual interest R%, in which of the following cases will the Simple Interest (SI) and Compound Interest (CI) be		D

			the same?																	
		Answer Options																		
		Option A	Option B	Option C	Option D															
		SI for 2 years, CI for 2 years (compounded annually).	SI for 2 years, CI for 1 year (compounded semi-annually).	SI for 1 year, CI for 1 year (compounded semi-annually).	SI for 1 year, CI for 1 year (compounded annually).															
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)															
14	2_11 MATHEMATICS 4473	Comparing Quantities	What is the value of $(\frac{3}{n})^2 - \frac{3}{n^2}$ , when $n = 2$ ?		C															
		Answer Options																		
		Option A	Option B	Option C	Option D															
		0	$\frac{3}{4}$	$\frac{3}{2}$	$\frac{15}{4}$															
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)															
15	2_11 MATHEMATICS 4471	Comparing Quantities	<p>Rectangle PQXY and parallelogram PQRS are drawn as shown below:</p> <p>Which fact about their area and perimeter is true?</p>		B															
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Area Comparison</th> <th style="text-align: center;">Perimeter Comparison</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>A.</b></td> <td>Both Same</td> <td>Both Same</td> </tr> <tr> <td style="text-align: center;"><b>B.</b></td> <td>Both Same</td> <td>PQRS greater</td> </tr> <tr> <td style="text-align: center;"><b>C.</b></td> <td>PQRS greater</td> <td>Both Same</td> </tr> <tr> <td style="text-align: center;"><b>D.</b></td> <td>PQRS greater</td> <td>PQRS greater</td> </tr> </tbody> </table>		Area Comparison	Perimeter Comparison	<b>A.</b>	Both Same	Both Same	<b>B.</b>	Both Same	PQRS greater	<b>C.</b>	PQRS greater	Both Same	<b>D.</b>	PQRS greater	PQRS greater	
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Answer Options			
Option A	Option B	Option C	Option D
A	B	C	D