


Subject: Mathematics


Grade: 9th

Set 1

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 5885	Number System	Which division will leave a remainder 2?		C										
						<table border="1"><thead><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></thead><tbody><tr><td>$345 \div 3$</td><td>$536 \div 4$</td><td>$587 \div 5$</td><td>$711 \div 9$</td></tr></tbody></table>				Answer Options				Option A	Option B
Answer Options															
Option A	Option B	Option C	Option D												
$345 \div 3$	$536 \div 4$	$587 \div 5$	$711 \div 9$												
2	2_10 Mathematics 5886	Number System	$(\frac{3}{5})^{-2}$ is equals to		D										
						<table border="1"><thead><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></thead><tbody><tr><td>$\frac{9}{25}$</td><td>$-\frac{9}{25}$</td><td>$\frac{9}{5}$</td><td>$\frac{25}{9}$</td></tr></tbody></table>				Answer Options				Option A	Option B
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$\frac{9}{25}$	$-\frac{9}{25}$	$\frac{9}{5}$	$\frac{25}{9}$												

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3	2_10 Mathematics 5887	Number System	If the length of the longer line is 60 cm, the length of the shorter one is		B										
		<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>25 cm</td> <td>22.5 cm</td> <td>20 cm</td> <td>18 cm</td> </tr> </tbody> </table>				Answer Options				Option A	Option B	Option C	Option D	25 cm	22.5 cm
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Option A	Option B	Option C	Option D												
25 cm	22.5 cm	20 cm	18 cm												
4	2_10 Mathematics 5888	Number System	Which of these is a Rational Number?		C										
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$\sqrt{6}$	π	0.333...	$2^{1/3}$												
5	2_10 Mathematics 5889	Number System	$2.5 \times 0.2 \times 0.2$ equals to		B										
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Answer Options															
Option A	Option B	Option C	Option D												
0. 01	0. 1	1	10												

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6	2_10 Mathematics 5890	Number System	What fractional part of 7777 is 77?		D
		Answer Options			
		Option A $\frac{1}{11}$	Option B $\frac{1}{77}$	Option C $\frac{1}{100}$	Option D $\frac{1}{101}$
7	2_10 Mathematics 5894	Number System	If we calculate the value of $\sqrt{2}$ we will get:		C
		Answer Options			
		Option A a terminating decimal fraction (like 1.4142)	Option B a recurring decimal fraction (like 1.4142222...)	Option C a non-terminating, non-recurring decimal fraction (like 1.4142....)	Option D a non-terminating decimal fraction whose digits follow a simple pattern (like 1.4142345678...)
8	2_10 Mathematics 5897	Number System	The value of $(-1)^0 - (-1)^1 - (-1)^2 - (-1)^3 - \dots - (-1)^9 - (-1)^{10} =$		A
		Answer Options			
		Option A 1	Option B 10	Option C 11	Option D 55

S.N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)										
9	2_10 Mathematics 5899	Number System	Aftab is checking his weight on a weighing scale. What is the reading on the scale, shown below?		D										
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Option A	Option B	Option C	Option D												
50.3 kg	50.7 kg	52 kg	53.5 kg												
10	2_10 Mathematics 5903	Number System	If one of three consecutive even integers is $m + 1$, another of them could be		D										
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Option A	Option B	Option C	Option D												
$m + 4$	$m + 7$	$m - 2$	$m - 3$												
11	2_10 Mathematics 5908	Number System	For which of these values of m is 0.8×10^m a perfect cube?		C										
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Answer Options															
Option A	Option B	Option C	Option D												
9	8	7	6												

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12	2_10 Mathematics 5912	Number System	<p>A magician gives Jack the seed of a magic bean plant. He plants the seed and records the plant's increase in height in decimeters (dm) every day. He finds that the plant's growth follows an interesting mathematical pattern:</p> <p>On day 1 the plant's height INCREASES by 1 dm. On day 2 the plant's height INCREASES by 2 dm. On day 3 the plant's height INCREASES by 3 dm. On day 4 the plant's height INCREASES by 4 dm.</p> <p>... and so on.</p> <p>Based on this pattern, the HEIGHT of the plant at the END of the nth day will be</p>		C												
<table border="1" style="width: 100%; text-align: center;"> <thead> <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> </thead> <tbody> <tr> <td>n dm</td> <td>n^2 dm</td> <td>$\frac{n(n + 1)}{2}$</td> <td>10 dm</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	n dm	n^2 dm	$\frac{n(n + 1)}{2}$	10 dm
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13	2_10 Mathematics 5914	Number System	<p>Badri, who collects stamps, gave half the number that he had to Varun, who had none. Varun gave half of these to Tariq, who also had none beforehand. If Tariq had given half the number he had back to Badri, the number of stamps with Badri would have been 20.</p> <p>How many stamps did Varun give Tariq?</p>		B
Answer Options					
Option A		Option B		Option C	
4		8		16	
4		8		32	

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14	2_10 Mathematics 5923	Number system	<p>Read the situation described below and answer the question.</p> <p>Amisha goes to her bank to withdraw money. When she reaches, there are 5 customers Q, R, S, T and U waiting before her as shown. The time that each person requires at the counter is also shown.</p> <p><i>The bank has 3 counters, and as each becomes free, the first person in the queue is called to that counter. (For example: The person already in counter 1 requires 10 seconds more (as shown) - then customer U will be called to Counter 1 and so on.)</i></p> <p>How long will Amisha have to wait?</p>		C
Answer Options					
Option A		Option B		Option C	
50 seconds		100 seconds		160 seconds	
Option D		Option C		Option D	
300 seconds		160 seconds		300 seconds	

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15	2_10 Mathematics 5924	Number System	<p>Read the situation described below and answer the question.</p> <p>Amisha goes to her bank to withdraw money. When she reaches, there are 5 customers Q, R, S, T and U waiting before her as shown. The time that each person requires at the counter is also shown.</p> <p><i>The bank has 3 counters, and as each becomes free, the first person in the queue is called to that counter. (For example: The person already in counter 1 requires 10 seconds more (as shown) - then customer U will be called to Counter 1 and so on.)</i></p> <p>When her turn comes, which counter will service Amisha?</p>		B
Answer Options					
Option A		Option B		Option C	
Counter 1		Counter 2		Counter 3	
				Option D	
				Can not be said	

