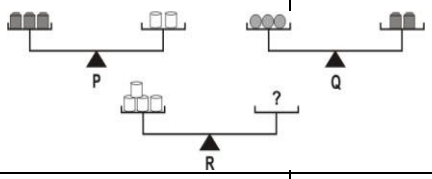
Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	3_19 Mathematics 2781	Linear Equations in two variables	In which of the following equations will the value of y decrease as the value of x increases?		C
		Answer Options			
		Option A: y = x-1	Option B: y = 2x-15	Option C: y = 5-2x	Option D: $y = \frac{x}{3}$
2	3_19 Mathematics 2793	Linear Equations in two variables	One man takes one day to dig a 4 m long trench. How long would it take 2 men working at the same rate to dig a 16 m long trench?		B
		Answer Options			
		Option A: 1 day	Option B: 2 days	Option C: 4 days	Option D: 8 days
3	3_19 Mathematics 2795	Linear equations in two variables	Akbar, Ali and Arman are 3 brothers. The ratio of Akbar's age to Arman's age is 1 : 2 and the ratio of Akbar's age to Ali's age is 2 : 5. If the eldest boy is 10 years old, how old is the youngest one?		C
		Answer Options			
		Option A: 1 year	Option B: 2years	Option C: 4 years	Option D: 5 years

<table>
<tr><th>Q. N</th><th>Folder name & Question Code</th><th>Topic</th><th>Question with Answer Options</th><th>Image (If Any)</th><th>Correct Answer (Option-A,B,C,D)</th></tr>
<tr><td>4</td><td>3_19 Mathematics

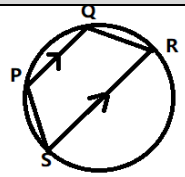
2806</td><td>Linear equations</td><td>Suparna has saved up Rs. 538 for a new pair of jeans. The price of the pair she wants is Rs. 750. Suparna's mother tells her that she can earn Rs. 15 per hour by helping her with the housework. Which of the following will help Suparna figure out how many hours (x) of housework she needs to do before she has enough to buy the jeans?</td><td></td><td>A</td></tr>
<tr><td colspan="4">Answer Options<table><tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr><tr><td>538+15x=750</td><td>15x=750</td><td>750-538x=15</td><td>(538+15)x=750</td></tr></table></td><td></td></tr>
<tr><td>5</td><td>3_19 Mathematics

2800</td><td>Linear equation in two variables</td><td>This is a sale notice that Mr. Rai has put up in his shop to attract customers. However, not really intending to sell his goods at a low price, he has marked each item at 10% higher than the actual marked price before announcing the sale. At what price would he be selling an item whose original marked price was P?</td><td>  </td><td>D</td></tr>
<tr><td colspan="4">Answer Options<table><tr><th>Option A</th><th>Option B</th><th>Option C</th><th>Option D</th></tr><tr><td>P</td><td>10%of P</td><td>90%of P</td><td>99% of P</td></tr></table></td><td></td></tr>
<tr><td>6</td><td>3_19 Mathematics</td><td>Linear equation</td><td>I started two clocks at the same time. One runs slow and loses 1 minute every hour. The other one is fast and gains 3 minutes every hour. How long will it take for the faster clock to be exactly one hour ahead of the slower</td><td></td><td>C</td></tr>
</table>

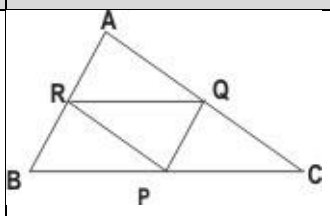
	2796		clock?			
		Option A	Option B	Option C	Option D	
		1 day	18 hours	15 hours	12 hours	
Q. N	Folder name & Question Code	Topic	Question with Answer Options		Image (If Any)	Correct Answer (Option-A,B,C,D)
7	3_19 Mathematics 2807	Linear equations	In the weighing scales shown below, the same shapes represent the same weights. According to the balanced scales P and Q, what weights should be put on the pan on the right to balance scale R?			B
		Answer Options				
		Option A	Option B	Option C	Option D	
		 A.	 B.	 C.	 D.	
Q. N	Folder name & Question Code	Topic	Question with Answer Options		Image (If Any)	Correct Answer (Option-A,B,C,D)
9	2_11 Mathematics 4464	Linear equations	P, Q and R are three friends. Q's height is 5/6 times the height of P. R's height is 1/5 times that of Q. Which of these statements is true?			A
		Answer Options				
		Option A	Option B	Option C	Option D	
		The ratio of P's height to that of Q is 6 : 5.	P is shorter than Q	Q is shorter than R	P and R are of the same height	

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
10	252&11415	INTRODUCTION TO EUCLID'S GEOMETRY	Points P, Q and R are co-planar. In which of the following cases will they NECESSARILY be collinear?		C

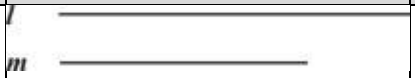
Answer Options			
Option A	Option B	Option C	Option D
When PQ = PR	When PQ + PR > QR	When PQ + QR = PR	When PR < PQ + QR

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
11	251&11414	LINES AND ANGLES	For a quadrilateral PQRS inscribed in a circle, with PQ || RS, which of the following is NOT necessarily true?		A

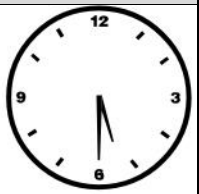
Answer Options			
Option A	Option B	Option C	Option D
$\angle Q + \angle P = 180^0$	$\angle Q + \angle S = 180^0$	$\angle Q + \angle R = 180^0$	$\angle S + \angle P = 180^0$

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
12	255&11418	LINES AND ANGLES	In the following figure PR || AC, QP || AB and RQ || BCIf the perimeter of triangleABC is 24 cm, the perimeter of triangle PQR will be		C

Answer Options			
Option A	Option B	Option C	Option D
6 cm	8 cm	12 cm	16 cm

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
13	260&11425	LINES AND ANGLES	If the length of the longer line is 60 cm, the length of the shorter one is		B

Answer Options			
Option A	Option B	Option C	Option D
25 cm	22.5 cm	20 cm	18 cm

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
14	8459	LINES AND ANGLES	The clocks below show the date and time in two different places in the world at the same, who stays in Mumbai, wants to chat with a friend who stays in Los Angeles on the internet. Everyday, George is on the internet from 9 a.m. to 8 p.m. (Mumbai time) and his friend is on the internet from 6 a.m. to 7 p.m. (Los Angeles time). According to the local time in Mumbai, what would be a suitable time for them to chat?	 Mumbai 5.30 a.m. (13	C

Answer Options			
Option A	Option B	Option C	Option D
9.00 a.m. to 9.30 a.m	6.00 p.m. to 7.00 p.m.	7.30 p.m. to 8.00 p.m.	9.00 a.m. to 7.00 p.m.

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
15	8423	LINES AND ANGLES	The difference between two temperature readings in an experiment was 9^0Which of these could be the temperature readings?		B

Answer Options			
Option A	Option B	Option C	Option D
1 and -6^0	$-5^0$and 4^0	$-1^0$and 9^0	$-2^0$and 11^0