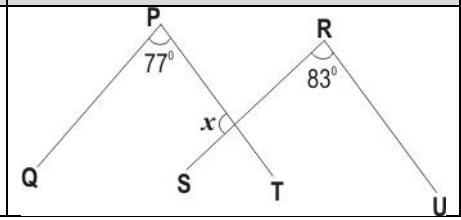
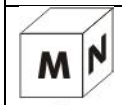
SET 11

Subject- Mathematics

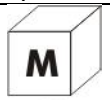
Class-VIII

<table>
<tr><th>S.N</th><th>Folder Number & 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>1</td><td>3_18 Mathematics 3355</td><td>VISUALISING SOLID SHAPES</td><td>In the figure, lines PT and RU are parallel. What is the measure of the angle marked x?</td><td> 
</td><td>C</td></tr>
<tr><td colspan="5"><table>
<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>77^0</td><td>83^0</td><td>97^0</td><td>103^0</td></tr>
</table></td></tr>
<tr><td>2</td><td>3_18 Mathematics 3359</td><td>VISUALISING SOLID SHAPES</td><td>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:

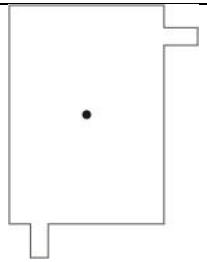
Which of these is another view of the same cube?</td><td>
</td><td>C</td></tr>
</table>

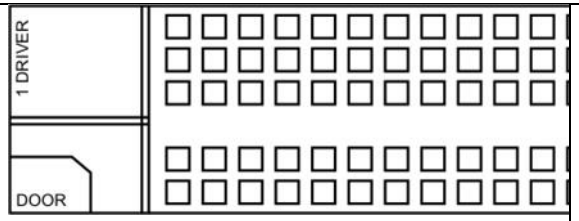
<table>
<tr><td></td><td></td><td>
<table>
<tr><th colspan="4">Answers option</th></tr>
<tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr>
<tr><td> 

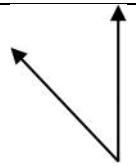
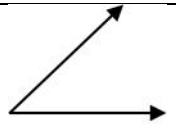
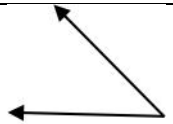
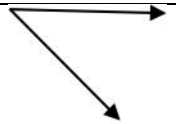
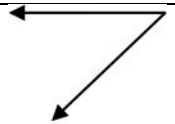
A.</td><td>

B.</td><td> 

C.</td><td>

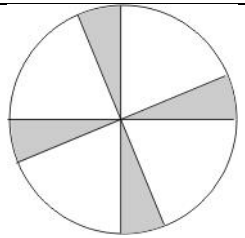
D.</td></tr>
</table>
</td></tr>
<tr><td>3</td><td>3_18
Mathematics
3372</td><td>VISUALISING SOLID SHAPES</td><td>What is the minimum number of degrees by which the shape below has to be rotated (about its centre) so that it looks exactly the same as it does now?</td><td>  </td><td>D</td></tr>
<tr><td></td><td></td><td colspan="4">
<table>
<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>9^0</td><td>100^0</td><td>180^0</td><td>360^0</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>2_11
Mathematics
4432</td><td>VISUALISING SOLID SHAPES</td><td>The top view of a school bus showing the arrangement of the passenger seats is shown below:

Which of the following is the correct way of counting the total number of passenger seats in the bus?</td><td> 
</td><td>C</td></tr>
</table>

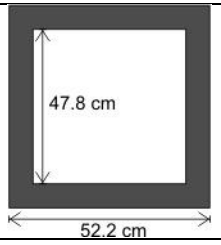
<table>
<tr><td></td><td></td><td>
<table>
<tr><th colspan="4">Answers option</th></tr>
<tr><td>Option A</td><td>Option B</td><td>Option C</td><td>Option D</td></tr>
<tr><td>3 + 2 × 12 + 6</td><td>6 - 1 × 13 + 1</td><td>5 × 12 + 6</td><td>2 + 3 × 13 – 12</td></tr>
</table>
</td></tr>
<tr><td rowspan="2">5</td><td rowspan="2">2_11
Mathematics
5282</td><td>VISUALISING SOLID SHAPES</td><td>If the above figure is turned by 270° in an ANTICLOCKWISE DIRECTION, which of these would be the result?</td><td>  </td><td>A</td></tr>
<tr><td colspan="4">
<table>
<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> 
A</td><td> 
B</td><td> 
C</td><td> 
D</td></tr>
</table>
</td></tr>
<tr><td>6</td><td>2_11
Mathematics
5286</td><td>VISUALISING SOLID SHAPES</td><td>Here is a letter pattern. Study it carefully and answer questions 32 and 33

How many times would you have written the letter 'c' if you complete writing this pattern up to the end of the TENTH row?</td><td>a
aba
abcba
abcdcba
⋮</td><td>B</td></tr>
</table>

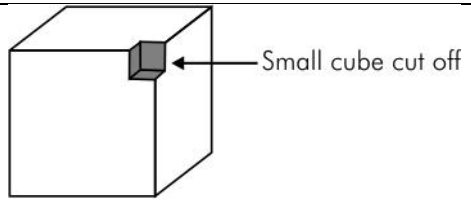
Answers option			
Option A	Option B	Option C	Option D
10	15	19	45

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

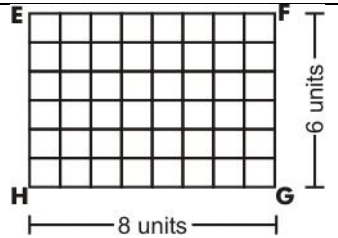
Answers option			
Option A	Option B	Option C	Option D
22.5°	20°	25°	30°

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 x {(52.2 x 2.2) + (47.8 x 2.2)}	52.2 x 4.4 x 2 + 47.8 x 4.4 x 2	100 x (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

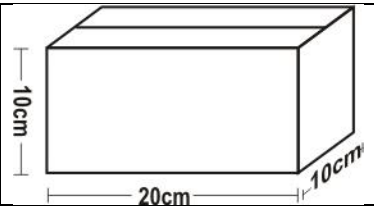
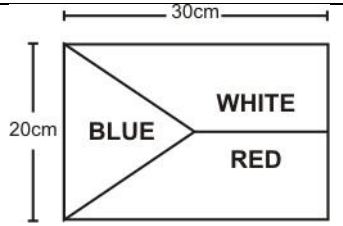
10	**2_11 Mathematics 4430**	Mensuration	A rectangle EFGH is shown below: If the width of rectangle EFGH is decreased by 2 units, by how many units should the length be		B

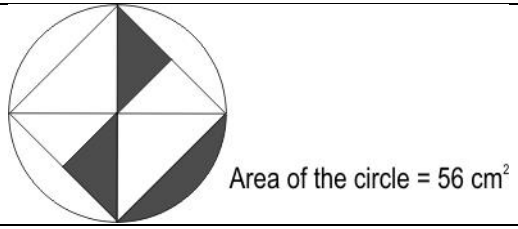
			increased so that the AREA of the rectangle remains unchanged?		

Answers option			
Option A	Option B	Option C	Option D
2	4	8	16s

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

<table>
<tr><td>12</td><td>2_11
Mathematics
4441</td><td>Mensuration</td><td>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?</td><td> 
</td><td>D</td></tr>
<tr><td colspan="5"><table>
<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>2000</td><td>20</td><td>10</td><td>2</td></tr>
</table></td></tr>
<tr><td>13</td><td>2_11
Mathematics
4449</td><td>Mensuration</td><td>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:
If one vertex of the triangle is exactly at the centre of the flag, how much area would Farhan paint blue?</td><td> 
</td><td>A</td></tr>
<tr><td colspan="5"><table>
<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>150 sq.cm</td><td>200 sq.cm</td><td>300 sq.cm</td><td>400 sq.cm</td></tr>
</table></td></tr>
</table>

<table>
<tr><td rowspan="2">14</td><td rowspan="2">2_11
Mathematics
5257</td><td>Mensuration</td><td>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?</td><td></td><td>A</td></tr>
<tr><td colspan="4"><table>
<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>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></td></tr>
<tr><td rowspan="2">15</td><td rowspan="2">2_11
Mathematics
5259</td><td>Mensuration</td><td>What is the area of the shaded portion if the area of the circle is 56 sq cm?</td><td> 
</td><td>B</td></tr>
<tr><td colspan="4"><table>
<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>12 sq cm</td><td>14 sq cm</td><td>14.8 sq cm</td><td>18.5 sq cm</td></tr>
</table></td></tr>
</table>