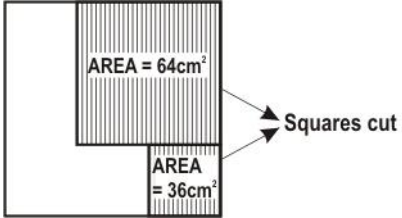
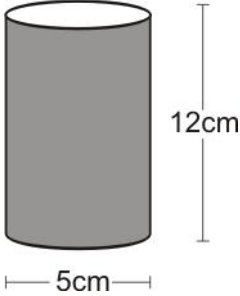
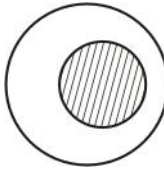


Subject: Mathematics

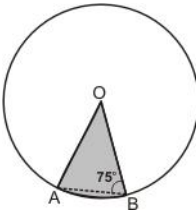
Grade: 9th

SET- 16

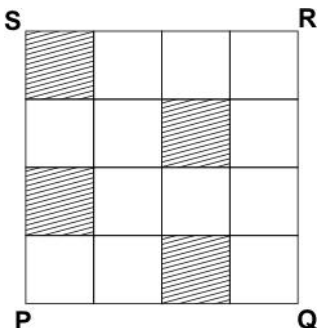
S. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)												
1.	2_11 Mathematics 4483	MENSURATION	Two squares of area 64 sq cm and 36 sq cm are cut off from a larger square sheet as shown in the figure: What is the PERIMETER of the remaining part of the sheet?		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">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> </thead> <tbody> <tr> <td style="text-align: center;">32 cm</td> <td style="text-align: center;">42 cm</td> <td style="text-align: center;">44 cm</td> <td style="text-align: center;">96 cm</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	32 cm	42 cm	44 cm	96 cm
Answer Options																	
Option A	Option B	Option C	Option D														
32 cm	42 cm	44 cm	96 cm														
2.	2_11 Mathematics 4474	MENSURATION	Shown below is a jar which is in the shape of a right circular cylinder. What is the length of the longest stick that could fit in this jar (without bending or breaking the stick and with no part sticking out) ?		B												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">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> </thead> <tbody> <tr> <td style="text-align: center;">12 cm</td> <td style="text-align: center;">13 cm</td> <td style="text-align: center;">14.25 cm</td> <td style="text-align: center;">17 cm</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	12 cm	13 cm	14.25 cm	17 cm
Answer Options																	
Option A	Option B	Option C	Option D														
12 cm	13 cm	14.25 cm	17 cm														

3.	2_11 Mathematics 4480	MENSUR ATION	A small circle is shaded inside a larger circle. If the area of the smaller circle is half the area of the larger, the ratio of the radius of the smaller circle to that of the larger circle is		C
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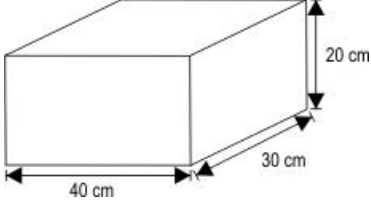
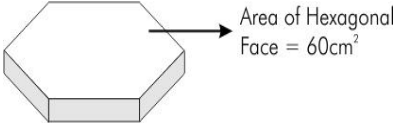
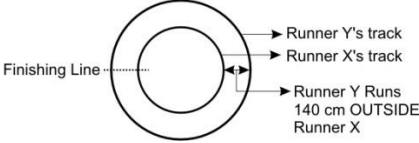
Answer Options			
Option A	Option B	Option C	Option D
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{\sqrt{2}}$	$\frac{\pi}{\sqrt{2}}$

4.	2_11 Mathematics 4484	MENSUR ATION	What will be the area of the circle shown if the area of the shaded part is 5 sq. cm?		B
----	-----------------------------	-----------------	---	---	---

Answer Options			
Option A	Option B	Option C	Option D
25 sq. cm	60 sq. cm	25π sq. cm	150 sq. cm

5.	2_11 Mathematics 5334	MENSUR ATION	PQRS is a square grid made of unit squares of side 1cm. I want to trace a path from P to Q along the lines of this grid WITHOUT TOUCHING THE SIDES OF ANY SHADED SQUARE. (Touching the corner of a shaded square is allowed). What would be the MINIMUM distance covered in tracing such a path?		D
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Answer Options			
Option A	Option B	Option C	Option D
4 cm	8 cm	12 cm	14 cm

6.	2_11 Mathematics 5300	MENSUR ATION	What is the length of the longest stick that can be packed in the box of the dimensions shown below?		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td style="text-align: center;">90 cm</td> <td style="text-align: center;">70 cm</td> <td style="text-align: center;">$\sqrt{2900}$ cm</td> <td style="text-align: center;">$\sqrt{2400}$ cm</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	90 cm	70 cm	$\sqrt{2900}$ cm	$\sqrt{2400}$ cm
Answer Options																	
Option A	Option B	Option C	Option D														
90 cm	70 cm	$\sqrt{2900}$ cm	$\sqrt{2400}$ cm														
7.	2_11 Mathematics 5304	MENSUR ATION	Tiles identical to the one shown below are piled up one on top of another to form a tower of volume 1830 cm^3 . What is the height of the tower (in cm)?		B												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td style="text-align: center;">18.3</td> <td style="text-align: center;">30.5</td> <td style="text-align: center;">183</td> <td style="text-align: center;">Can not say unless the number of tiles used is given.</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	18.3	30.5	183	Can not say unless the number of tiles used is given.
Answer Options																	
Option A	Option B	Option C	Option D														
18.3	30.5	183	Can not say unless the number of tiles used is given.														
8.	2_11 Mathematics 5315	MENSUR ATION	<p>Two runners X and Y have to race around the circular track shown below.</p> <p>For safety, runner X is asked to run along the inner circle and runner Y along the outer, which is 140 cm outside the inner one.</p> <p>If the race is of 4 laps (rounds) for runner X, how many metres ahead of him should runner Y start to make the race fair?</p>		D												

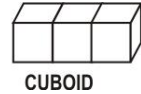
Answer Options			
Option A	Option B	Option C	Option D
1.4	5.6	8.3	35.2

9.
2_11
Mathematics
4462

MENSUR
ATION

The cuboid shown below is made of 3 unit cubes like the one to its left:

If the surface area of the cube is 18 sq cm, what is the surface area of the cuboid in sq cm?



A

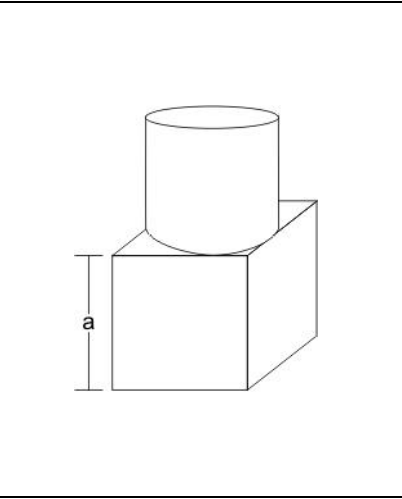
Answer Options			
Option A	Option B	Option C	Option D
42	48	54	81

10.
2_11
Mathematics
5328

MENSUR
ATION

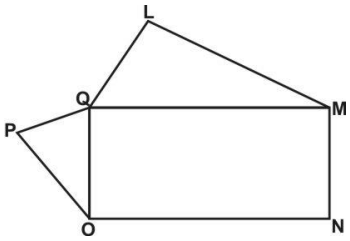
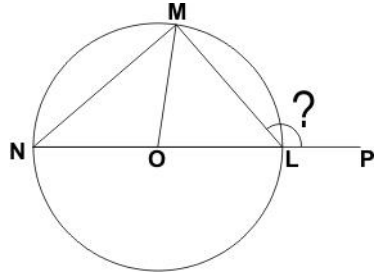
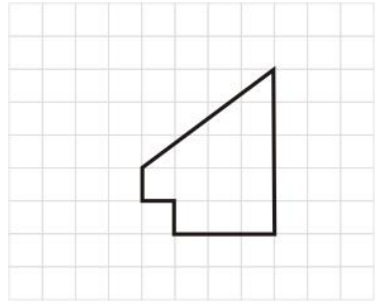
Hiralal has two wooden cubes of side 'a' cm each. He carves one of them into the LARGEST POSSIBLE CYLINDER and fixes the two solids together as shown below.

He now wants to cover this solid entirely with a coat of paint. Assuming $\pi = 3$, the total area to be painted (in cm^2) will be close to



B

Answer Options			
Option A	Option B	Option C	Option D
$8.75a^2$	$9a^2$	$5a^2$	$12a^2$

11.	2_11 Mathematics 5325	MENSUR ATION	<p>In the figure, perimeter of LMQ is 24 cm, perimeter of OPQ is 14 cm and the perimeter of rectangle QMNO is 28 cm.</p> <p>The perimeter of hexagon LMNOPQ (in cm) is</p>		C												
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66 cm	39.3 cm	38 cm	19.7 cm														
12.	2_11 Mathematics 5311	MENSUR ATION	<p>Diameter NOL of the circle (with centre O) shown below is produced to P.</p> <p>$\angle ONM : \angle OML = 4 : 5$.</p> <p>The measure of $\angle PLM$ is</p>		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td style="text-align: center;">50°</td> <td style="text-align: center;">100°</td> <td style="text-align: center;">130°</td> <td style="text-align: center;">140°</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	50°	100°	130°	140°
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Option A	Option B	Option C	Option D														
50°	100°	130°	140°														
13.	3_19 Mathematics 2803	MENSUR ATION	<p>The grid shown consists of unit squares. What is the perimeter of the figure shown on the grid?</p>		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td style="text-align: center;">14.5 units</td> <td style="text-align: center;">15 units</td> <td style="text-align: center;">16 units</td> <td style="text-align: center;">20 units</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	14.5 units	15 units	16 units	20 units
Answer Options																	
Option A	Option B	Option C	Option D														
14.5 units	15 units	16 units	20 units														

14	2_11 Mathematics 5302	MENSU RATIO N	The circumference of the rim of a regular sized glass would be about		A		
			Answer Options				
			Option A	Option B		Option C	Option D
			22cm	14cm		10cm	08cm
15	2_11 Mathematics 4468		The diameter of a regular sized cricket ball would be about		B		
			Answer Options				
			Option A	Option B		Option C	Option D
			4cm	7cm		10cm	13cm