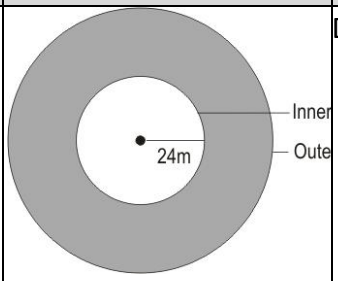
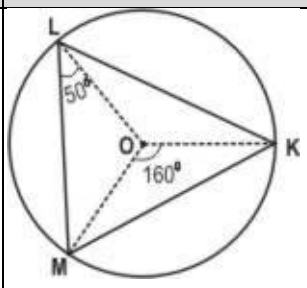
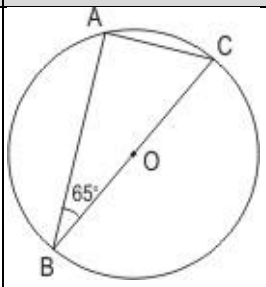
SET-14 MATHS-IX

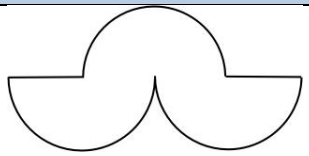
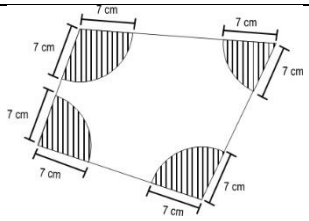
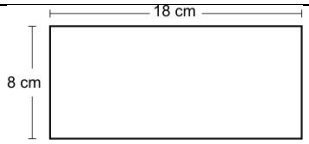
Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A,B,C,D)
1	5_26 1643	Circles	Keeping his speed the same, John takes 1.5 times as much time to jog once along the outer edge of the circular track shown here as compared to the inner edge. What is the width of the track if the radius of the inner edge is 24 m?		D

Answer Options			
Option A	Option B	Option C	Option D
36m	24 m	15 m	12 m

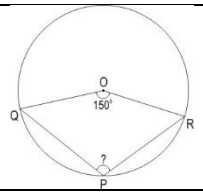
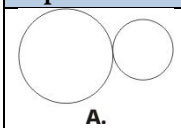
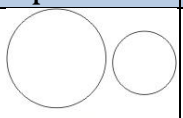
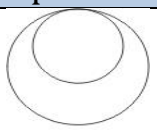
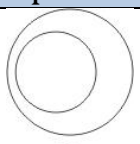
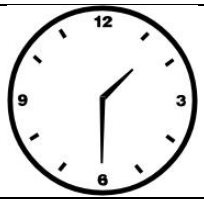
Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
2	5_28 10098	Circles	Triangle KLM is inscribed in the circle with centre O. If m∠OLM = 50°and m∠KOM = 160°,what is the measure of∠LKO?		B

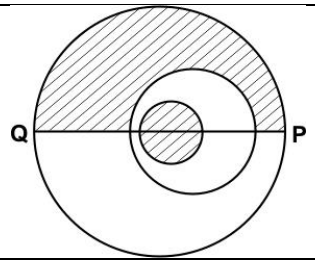
Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
3	5_29 11416	Circles	O is the centre of the circle shown here Note: The figure is not to scale. What is ∠BCA?		C

Answer Options			
Option A	Option B	Option C	Option D
65°	35°	25°	115°

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
5	2_10 Mathematics 5913	CIRCLES	Swati cuts out three SEMI-CIRCULAR pieces of radius 5 cm from a large sheet of paper. She then sticks them on a piece of cardboard to form the design shown below in such a way that there is no overlap: What is the perimeter of the shape (in cm)?		C
		Answer Options			
		Option A	Option B	Option C	Option D
		15π	30π	15π+10	30π+10
6	2_10 Mathematics 5918	CIRCLES	The area of the shaded part of the quadrilateral is		C
		Answer Options			
		Option A	Option B	Option C	Option D
		77 cm^2	98 cm^2	154 cm^2	(Cannot say)
7	2_10 Mathematics 5920	CIRCLES	The largest SEMICIRCLE that can be cut out of the rectangle shown here will have a radius of		B
		Answer Options			
		Option A	Option B	Option C	Option D
		4 cm	8 cm	9 cm	10 cm

Q.	Folder	Topic	Question with Answer	Image (If Any)	Correct

N	name & Question Code		Options			Answer (Option-A,B,C,D)
8	3_18 Mathematics 3421	CIRCLES	At what time between 9 o'clock and 10 o'clock does the minute hand of a clock overtake the hour hand?			C
		Answer Options				
		Option A	Option B	Option C	Option D	
		at 9:30	between 9:46 and 9:48	between 9:48 and 9:50	between 9:50 and 9:52	
9	3_18 Mathematics 3391	CIRCLES	O is the centre of the circle shown below.What is the measure of ∠QPR ?			B
		Answer Options				
		Option A	Option B	Option C	Option D	
		30°	105°	210°	150°	
10	3_18 Mathematics 3409	CIRCLES	Two circles have radii x cm and y cm respectively (x not equal to y) and the distance between their centres is d cm. If x - y = d, what will be the relative position of the two circles?			C
		Answer Options				
		Option A	Option B	Option C	Option D	
		 A.	 B.	 C.	 D.	
11	2_11 Mathematics 5331	CIRCLES	What would be the time shown by this clock after the HOUR hand has turned by 8°?			C
		Answer Options				
		Option A	Option B	Option C	Option D	
		1:31	1:38	1:46	2:52	

13	2_11 Mathematics 5322	CIRCLES	In the figure, QP is a diameter of the outermost circle and the centres of the other two circles also lie on QP. The radii of the three circles are in the ratio 4 : 2 : 1. What fraction of the outermost circle is shaded?		D

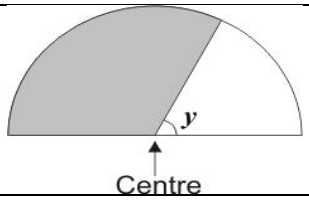
Answer Options

Option A	Option B	Option C	Option D
$\frac{1}{2}$	$\frac{3}{7}$	$\frac{4}{11}$	$\frac{7}{16}$

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
14	3__19 Mathematics 2783	CIRCLES	Sania drew a quadrilateral PQRS in which the opposite angles were supplementary but the adjacent angles were not. What kind of quadrilateral was PQRS?		D

Answer Options

Option A	Option B	Option C	Option D
A trapezium	A rhombus	A parallelogram	A cyclic quadrilateral

15	3__19 Mathematics 2776	CIRCLES	What will be the measure of angle y if 65% of the semi circular region is shaded?		B

Answer Options

Option A	Option B	Option C	Option D
60°	63°	65°	75°