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Area questions for IBPS PO Pre Exams

Area Quiz 8

Directions : Read the following questions carefully and choose the right answer.

1. From a rectangular sheet of length and breadth 20 cm and 10 cm respectively, a quarter circle of radius 7 cm is cut from a corner. What is the difference (in cm) between the perimeter of the two figures?
A. 36 B. 32 C. 28 D. 33 E. 42
2. A rectangular park of dimensions 64 m × 90 m has a 2 m wide pathway running along its inner perimeter and a Basketball court of dimensions 30m × 18m inside the park. What is the area (in m²) of the ground other than the pathway and court?
A. 4604 B. 4612 C. 4620 D. 4624 E. 4616
3. A rectangular park of 120 meter length and 80 meter breadth has a footpath of width 2 meter inside it along the boundary. There is a project of constructing an interlock road on it. If the total cost of the project was Rs. 11,760, find the cost of construction per square meter.
A. Rs. 10 B. Rs. 15 C. Rs. 18 D. Rs. 20 E. Rs. 25
4. A circle is made with a very thin wire of length 1320 cm. Another wire of same length is used to make a square. Find the ratio of area of circle to the area of the square.
A. 11 : 12 B. 14 : 11 C. 14 : 13 D. 1 : 1 E. None of these
5. A square shaped cardboard has an area of 196 sq cm. A circular shaped piece is cut from it such that the area of the circular piece is the maximum. Find the ratio of perimeter of the square shaped cardboard before it was cut to the circumference of the circular cardboard.
A. 3 : 4 B. 5 : 8 C. 8 : 7 D. 11 : 9 E. 14 : 11

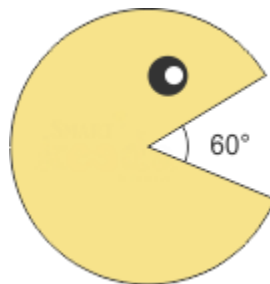
6. ABCD is a rectangle with $AB = 28$ cm and $BC = 25$ cm and O is the middle point of CD. From the rectangle, a square of area 9cm^2 from corner B, a semicircle with CO as diameter and a quarter circle with OD as radius are cut out. What is the perimeter (in cm) of remaining figure?

- A. 124 B. 108 C. 132 D. 94 E. 116

7. A rectangular park has dimensions $48\text{ m} \times 35\text{ m}$. There is a 4m wide pathway along one of its inner length and a 3 m wide pathway along one of its breadth and both pathways meet at a corner, on the opposite corner there is a fountain in shape of a quarter circle with radius 14 m . What is the area (in m^2) of the park other than the pathway and the fountain?

- A. 1284 B. 1241 C. 1229 D. 1253 E. 1264

8. Ajay designed a Pacman on a drawing paper as given in the image. The radius of largest circle is 42 cm , that of smaller circle is 10.5 cm and that of smallest circle is 3.5 cm . If Y, B and W represent the area of Yellow, Black and White area, what is the value (in cm^2) of $(Y - B)$?



- A. 4364.5 B. 4312 C. 3965.5 D. 4273.5 E. None of these

9. A park has dimension $48\text{ m} \times 32\text{ m}$ with two separate pathways of width 2 m and 3 m running parallel to its length and one 3 m wide pathway running parallel to its breadth towards inside. What is the area (in m^2) of the ground?

- A. 1215 B. 1940 C. 1230 D. 1200 E. 1220

10. A rectangular park of length 70 meter and breadth 45 meter has a footpath of width 5 meter along its outer boundary. There is a project of constructing a coal tar road on the footpath. If the total cost of the project was Rs. $12,000$, find the cost of construction per square meter.

- A. Rs. 12 B. Rs. 10.4 C. Rs. 12.5 D. Rs. 9.6 E. Rs. 12.3



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Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	C	B	B	E	B	B	C	A	D

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Explanation:

1.

$$\text{Perimeter of remaining rectangle} = 2(L + B) - 2r + \frac{2\pi r}{4}$$

$$\text{Perimeter of quarter circle cut out} = 2r + \frac{2\pi r}{4}$$

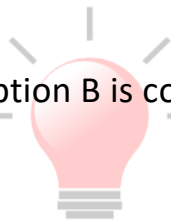
$$\text{Reqd. difference} = 2(L + B) - 2r + \frac{2\pi r}{4} - (2r + \frac{2\pi r}{4})$$

$$= 2(L + B) - 4r$$

$$= 2(20 + 10) - 4 \times 7$$

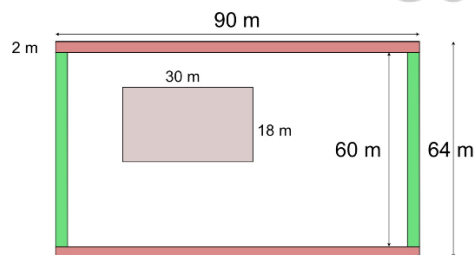
$$= 32 \text{ cm}$$

Hence, option B is correct.



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2.



$$\text{Area of the park} = 64 \times 90 = 5760 \text{ m}^2$$

$$\text{Area of the basketball court} = 30 \times 18 = 540 \text{ m}^2$$

$$\text{Area of pathway} = (90 \times 2 + 60 \times 2) \times 2 = 600 \text{ m}^2$$

$$\text{Area of ground} = 5760 - 540 - 600 = 4620 \text{ m}^2$$

Hence, option C is correct.

3. Area of footpath = $120 \times 80 - 116 \times 76 = 784$ sq m

$$\text{Cost per square meter} = \frac{11760}{784} = \text{Rs. } 15$$

Hence, option B is correct.

4.

$$\frac{22}{7} R = 1320 \rightarrow R = 210 \text{ cm}$$

$$\text{Area of circle} = \frac{22}{7} \times 210 \times 210 = 22 \times 30 \times 210$$

$$\text{Side length of the square} = \frac{1320}{4} = 330 \text{ cm}$$

$$\text{Area} = 330 \times 330$$

$$\text{Ratio} = 22 \times 30 \times 210 : 330 \times 330 = 14 : 11$$

Hence, option B is correct.

5. Side length of the square cardboard = $(196 \text{ sq cm})^{1/2} = 14 \text{ cm}$

$$\text{Radius of circle} = \frac{\text{side length of the square}}{2} = \frac{14}{2} = 7 \text{ cm}$$

Circumference of the circular cardboard

$$= 2 \times \frac{22}{7} \times 7 = 44 \text{ cm}$$

$$\text{Perimeter of square cardboard} = 4 \times 14 = 56 \text{ cm}$$

$$\text{Ratio} = 56 : 44 = 14 : 11$$

Hence, option E is correct.

6. Perimeter of a circle = $2\pi r$

Perimeter of the quarter circle with radius 14 cm

$$= \frac{1}{4} \times \left(2 \times \frac{22}{7} \times 14 \right) = 22 \text{ cm}$$

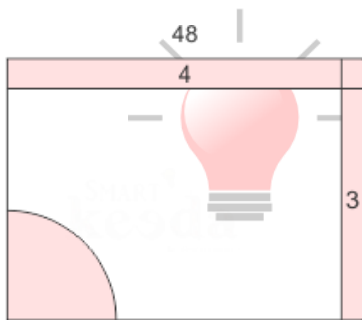
Perimeter of the arc of the semi circle with radius 7 cm

$$= \frac{1}{2} \times \left(2 \times \frac{22}{7} \times 7 \right) = 22 \text{ cm}$$

Total perimeter = $25 + 3 + 3 + 22 + 22 + 22 + 11 = 108 \text{ cm}$

Hence, option B is correct.

7.



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Area of ground

$$= 48 \times 35 - [48 \times 4 + 35 \times 3 - 3 \times 4 + \frac{1}{4} \times \frac{22}{7} \times 14 \times 14]$$
$$= 1241 \text{ m}^2$$

Hence, option B is correct.

8.

$$\text{Area of White} = \frac{22}{7} \times 3.5 \times 3.5 = 38.5 \text{ cm}^2$$

$$\text{Area of Black} = \frac{22}{7} \times (10.5)^2 - \frac{22}{7} \times (3.5)^2 = 308 \text{ cm}^2$$

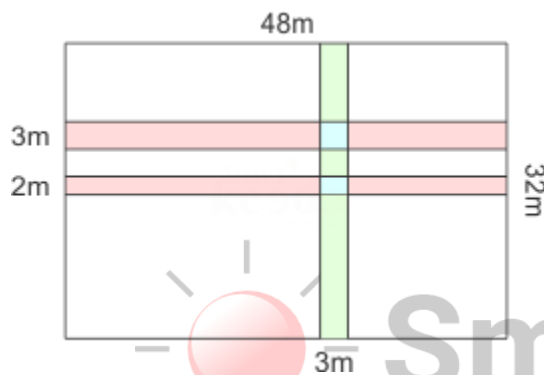
Area of Yellow

$$= \frac{360 - 60}{360} \times \frac{22}{7} \times 42 \times 42 - (308 + 38.5) = 4273.5 \text{ cm}^2$$

$$Y - B = 4273.5 - 308 = 3965.5 \text{ cm}^2$$

Hence, option C is correct.

9. Area of the ground = $48 \times 32 - (32 \times 3 + 48 \times 3 + 48 \times 2 - 3 \times 3 - 2 \times 3) = 1215 \text{ m}^2$



Hence, option A is correct.

10. Area of footpath = $80 \times 55 - 70 \times 45 = 1250 \text{ sq m}$

$$\text{Cost per square meter} = \frac{12000}{1250} = \text{Rs. } 9.6.$$

Hence, option D is correct.



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