

# WORKSHEET

Class 7

## Perimeter & Area

### Multiple Choice Questions (MCQs)

1. The area of a rectangular sheet is  $500 \text{ cm}^2$ . If the length of the sheet is  $25 \text{ cm}$ , what is its width?

- (a)  $20 \text{ cm}$
- (b)  $17 \text{ cm}$
- (c)  $30 \text{ cm}$
- (d)  $25 \text{ cm}$

2. Which figure encloses more area: a square of side  $2 \text{ cm}$ ; a rectangle of side  $3 \text{ cm}$  &  $2 \text{ cm}$ ; An equilateral triangle of side  $4 \text{ cm}$ ?

- (a) rectangle
- (b) square
- (c) triangle
- (d) same of rectangle & square

3. The area of parallelogram is:

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(a) base + height

(b) base  $\times$  height

(c) base  $\times$  base

(d) height  $\times$  height

4. Which of the following has the formula: Base  $\times$  Height

(a) area of parallelogram

(b) area of quadrilateral

(c) area of triangle

(d) area of trapezium

5. If the area of the triangle is  $36 \text{ cm}^2$  and the height is 3 cm, the base of the triangle will be:

(a) 12 cm

(b) 39cm

(c) 108 cm

(d) 24 cm

6. The perimeter of square of side 2.55 m is:

(a) 10.2 m

(b)  $10.2 \text{ m}^2$

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(c)  $6.25 \text{ m}^2$

(d)  $6.25 \text{ m}$

7. Area of triangle whose base is  $15 \text{ cm}$  and corresponding altitude is  $6 \text{ cm}$  will be:

(a)  $45 \text{ cm}^2$

(b)  $90 \text{ cm}^2$

(c)  $45 \text{ cm}$

(d)  $90 \text{ cm}$

8. The circumference of circle whose diameter is  $14 \text{ cm}$  will be:

(a)  $44 \text{ cm}$

(b)  $88 \text{ cm}$

(c)  $44 \text{ cm}^2$

(d)  $88 \text{ cm}^2$

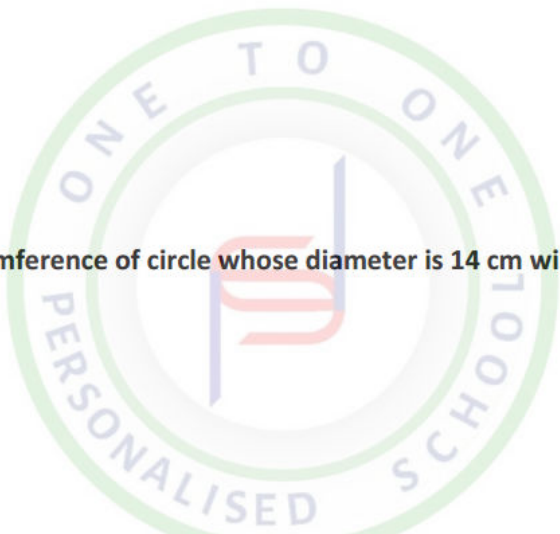
9. If the area of circle is  $44 \text{ cm}^2$ , the area of shaded portion will be:

(a)  $11 \text{ cm}^2$

(b)  $11 \text{ cm}$

(c)  $22 \text{ cm}^2$

(d)  $22 \text{ cm}^2$



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10. The diameter of a circle is:

- (a)  $r^2$
- (b)  $2r$
- (c)  $3r$
- (d)  $r^2$

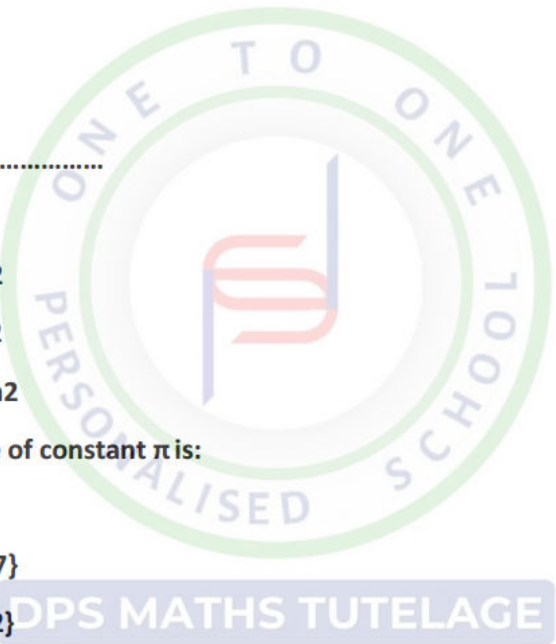
11.  $1 \text{ m}^2 = \dots\dots\dots$

- (a)  $100 \text{ cm}^2$
- (b)  $1000 \text{ cm}^2$
- (c)  $10000 \text{ m}^2$
- (d)  $10000 \text{ cm}^2$

12. The value of constant  $\pi$  is:

- (a) 31.4
- (b)  $\frac{22}{7}$
- (c)  $\frac{7}{22}$
- (d) 314

13. The difference between the circumference and radius of a circle is 37 cm. The area of the circle is:



(a) 111 cm<sup>2</sup>

(b) 184 cm<sup>2</sup>

(c) 154 cm<sup>2</sup>

(d) 259 cm<sup>2</sup>

14. On decreasing the radius of the circle by 30%, its area is decreased by:

(a) 30%

(b) 60%

(c) 45%

(d) none of these

15. The diameter of a wheel is 40 cm. How many revolutions will it make on covering 176 m?

(a) 140

(b) 150

(c) 160

(d) 166

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16. Find the area of a circle whose circumference is 52.8 cm.

(a) 221.76 cm<sup>2</sup>

(b) 220.76 cm<sup>2</sup>

(c) 200.76 cm<sup>2</sup>

(d) none of these

17. If the perimeter of a semicircular protractor is 36 cm, find the diameter.

(a) 14 cm

(b) 16 cm

(c) 18 cm

(d) 12 cm

18. A wire is in the shape of a square of side 10 cm. If the wire is rebent into a rectangle of length 12 cm, find its breadth.

(a) 12 cm

(b) 7 cm

(c) 8 cm

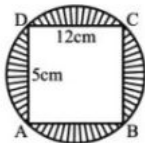
(d) 9 cm

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19. Find the area of the shaded region in the adjacent figure, take  $\pi = 3.14$

(a) 75 cm<sup>2</sup>

(b) 72 cm<sup>2</sup>



(c) 70 cm<sup>2</sup>

(d) none of these

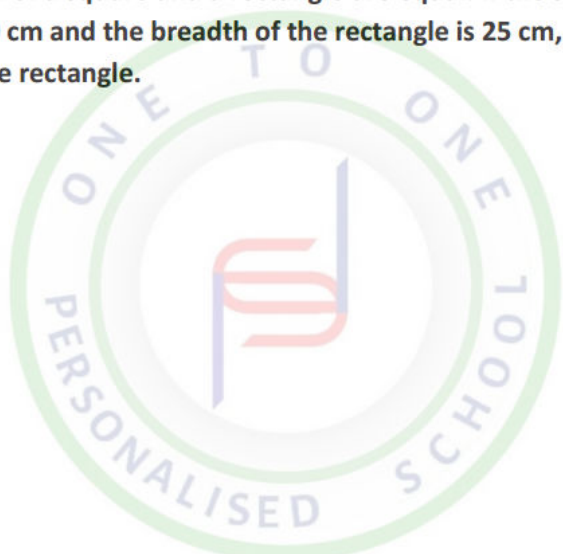
20. The area of a square and a rectangle are equal. If the side of the square is 40 cm and the breadth of the rectangle is 25 cm, find the length of the rectangle.

(a) 60 m

(b) 62 m

(c) 64 m

(d) 68 m



**\*\*\*\*\*ALL THE BEST\*\*\*\*\***

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