SATISH CHANDRA MEMORIAL SCHOOL

CLASS: VII

Class Test on Chapter 9: Perimeter and Area

Maximum Marks: 13 Time: 30 minutes

- **Choose The Correct Option:** $[\mathbf{1 \times 13 = 13}]$

1 In reference to circle, the value of π is equal to

(a) $\frac{\text{Perimeter}}{\text{Area}}$ (b) $\frac{\text{Circumference}}{\text{Diameter}}$ (c) $\frac{\text{Circumference}}{\text{Area}}$ (d) $\frac{\text{Circumference}}{\text{Radius}}$

2 Area of a triangle is 14.25 sq. cm. If the base of the triangle is 7.5 cm, then corresponding height is

(a) 1.9 cm (b) 2.9 cm (c) 3.8 cm (d) 4.9 cm

3 If the base of a parallelogram becomes thrice of its initial and corresponding height becomes two − third of its initial, then new area of the parallelogram will be −

(a) twice of initial (b) thrice of initial (c) half of initial (d) remain same

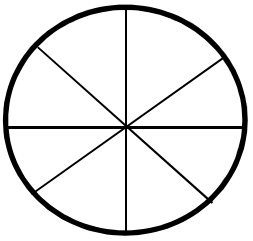
4 The circumference of a circle is 145.2 m. The length of its diameter is −

(consider $\pi = \frac{22}{7}$)

(a) 12.3 m (b) 21.3 m (c) 23.1 m (d) 46.2m

5 The diameter of the adjoining circle is 21 cm. It is divided into 8 equal sectors. The perimeter of each sector will be −

(consider $\pi = \frac{22}{7}$)

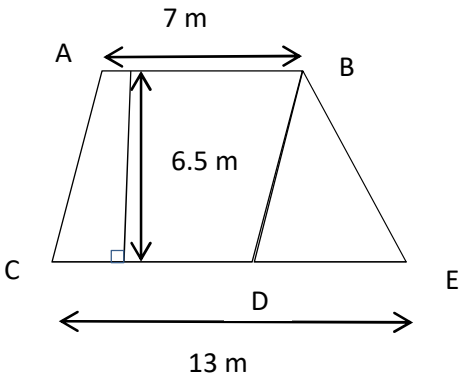


(a) 29.5 cm (b) 29.25 cm (c) 19.25 cm (d) 39.25 cm

6 If the area of a parallelogram is 54 cm^2 and length of one side is 7.5 cm, then the corresponding height is −

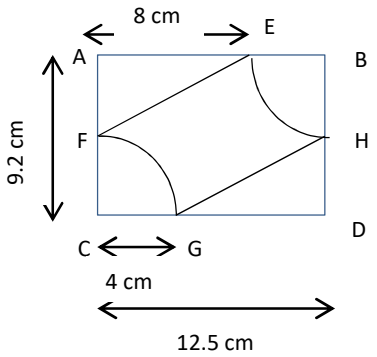
(a) 7.2 cm (b) 14.4 cm (c) 3.6 cm (d) 13.5 cm

7 In the adjoining figure, ABDC is a parallelogram and BDE is a triangle . Together they are forming a trapezium named ABEC. Area of the trapezium is



(a) $84.5\ m^2$ (b) $85\ m^2$ (c) $64.5\ m^2$ (d) $65\ m^2$

8 In the adjoining figure, ABCD is a rectangle of dimension 12.5 cm $\times$ 9.2 cm. Inside the rectangle at two corners there are two quadrants of radius 4 cm and in other two corners there are two identiacal right – angled triangle. Find the area of the rectangle except the quadrants and triangles. (consider $\pi = 3.14$)



(a) $48.28\ cm^2$ (b) $46.28\ cm^2$ (c) $42.88\ cm^2$ (d) $48.22\ cm^2$

9 The area of a circle is numerically equal to its circumference, then radius of the circle is –

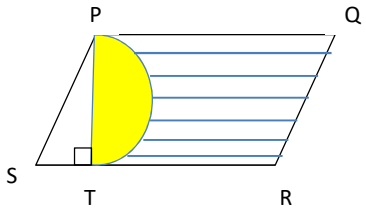
(a) 1 unit (b) 2 units (c) 3 units (d) 4 units

10 The perimeter of a semicircle (including its diameter) of diameter 29.4 cm is –

(consider $\pi = \frac{22}{7}$)

(a) 72.5 cm (b) 76.5 cm (c) 72.6 cm (d) 75.6 cm

11 PQRS is a parallelogram in which length of SR is 11.5 cm and PT $\perp$ SR ,
PT = 8.4 cm. There is a semicircle inside the parallelogram whose diameter is equal to length of PT. If ST = 3.2 cm, the area of blue shaded region is –
($\pi = 3.14$)

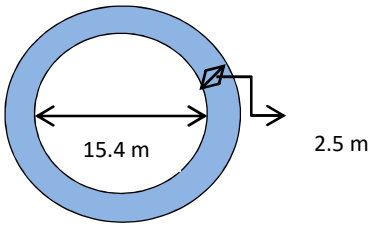


(a) $55.4652\ cm^2$ (b) $54.4652\ cm^2$ (c) $42.4652\ cm^2$ (d) $75.4652\ cm^2$

12 Convert 17528.37 mm^2 into dcm^2 unit –

(a) 175.2837 dcm^2 (b) 1.752837 dcm^2 (c) 17.52837 dcm^2 (d) 0.1752837 dcm^2

13 *Find the area of the blue ring(upto two decimal place) of width* 2.5 *m around a circle of diameter* 15.4 *m.* $(\pi = \frac{22}{7})$



(a) 142.64 m^2 (b) 140.64 m^2 (c) 242.64 m^2 (d) 241.64 m^2