

## Perimeter and Area of Plane Figures

**Q1. Find the perimeter of a square whose:**

a. side is 4 cm

Perimeter = \_\_\_\_\_

b. area is  $324 \text{ cm}^2$

Perimeter = \_\_\_\_\_

**Q2. Find the perimeter of a rectangle whose:**

a. length = 4 cm, breadth = 2.4 cm

Perimeter = \_\_\_\_\_

b. length = 9 cm, area =  $36 \text{ cm}^2$

Perimeter = \_\_\_\_\_

**Q3. Rashi has a square garden whose perimeter is 116 m. Find the area of the garden.**

Area of the garden = \_\_\_\_\_

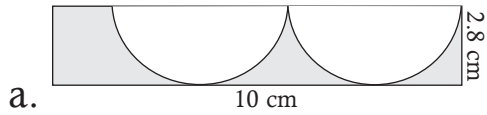
**Q4. The length of a rectangle is thrice its breadth. If the perimeter of the rectangle is 72 cm, find the area of the rectangle.**

Area of the rectangle = \_\_\_\_\_  $\text{cm}^2$

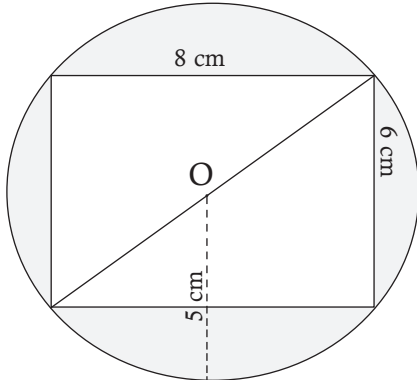
**Q5. A footpath 16.4 m long and 2 m wide is to be paved with rectangular tiles measuring  $20 \times 40 \text{ cm}$ , find the number of tiles required to cover the floor.**

Answer: \_\_\_\_\_

**Q6. Find the area of the shaded region:**



Area = \_\_\_\_\_



b. Area = \_\_\_\_\_

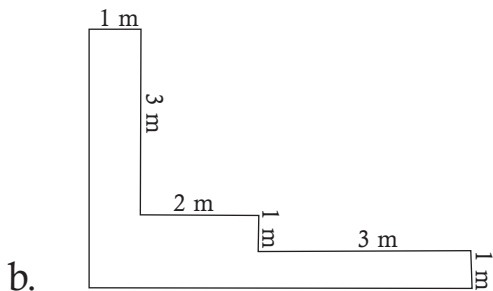
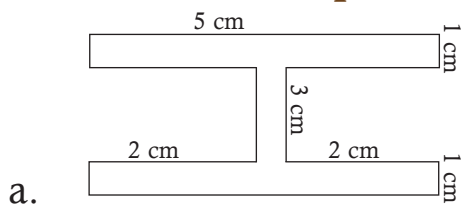
**Q7. Harish's field is 24 m long and 18 m wide. He wants to leave 0.5 m from each side for putting up a fence and level the rest of the field. If the cost of levelling is 35 paise per square metre, find the cost of levelling Harish's field.**

Answer: \_\_\_\_\_

**Q8. A goat is tied by a rope to a pole which is in the centre of a circular field whose radius is 6.3 m. If the length of the rope is 2.8 m, find the area that is inaccessible to the goat.**

Area inaccessible to the goat = \_\_\_\_\_

**Q9. Find the area and perimeter of the following figure:**



**Q10. Choose the correct option:**

- a. The height  $h$  of a triangle is twice its base  $b$ . The area of the triangle is:
- i.  $2b$
  - ii.  $b^2$
  - iii.  $2h^2$
- b. The base  $b$  and height  $h$  of a triangle are in the ratio  $2 : 3$ . If the base of the triangle is 10 cm, its area will be:
- i.  $150 \text{ cm}^2$
  - ii.  $25 \text{ cm}^2$
  - iii.  $75 \text{ cm}^2$

## Answers

1. a. 16 cm; b. 72 cm
2. a. 12.8 cm; b. 26 cm
3.  $841 \text{ m}^2$
4.  $243 \text{ cm}^2$
5. 410 tiles
6. a.  $3.3824 \text{ cm}^2$ ; b.  $30.5 \text{ cm}^2$
7. ₹136.85
8.  $100.009 \text{ m}^2$
9. a. Area= $13 \text{ cm}^2$  , Perimeter = $28 \text{ cm}$  ; b. Area= $12 \text{ m}^2$  , Perimeter =  $22 \text{ m}$
10. a. (ii); b. (iii)