

Perimeter and Area of Plane Figures

Q1. Find the perimeter of a square whose:

a. side is 2.5 cm.

Perimeter = _____

b. area is 625 cm^2 .

Perimeter = _____

Q2. Find the perimeter of a rectangle whose:

a. length = 5 cm, breadth = 2 cm.

Perimeter = _____

b. length = 3 cm, area = 24 cm^2 .

Perimeter = _____

Q3. Raman has a rectangular plot of land whose area is 960 m^2 . If the length of the plot is 80 m, find the breadth and perimeter of the plot.

Breadth of the plot = _____

Perimeter of the plot = _____

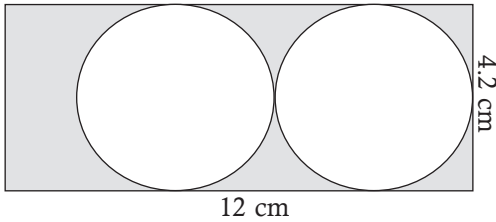
Q4. The ratio of the length and breadth of a rectangle is 3 : 2 and its perimeter is 220 cm. Find the area of the rectangle.

Area of the rectangle = _____

Q5. The floor of a room is 12 m long and 8 m wide. If the floor is to be covered with square tiles of side 2 cm, find the number of tiles required to cover the floor.

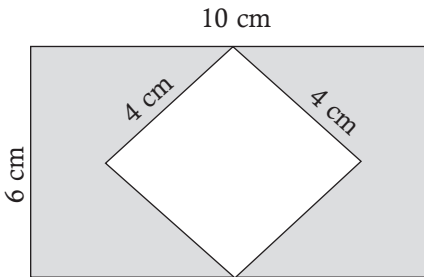
Answer: _____

Q6. Find the area of the shaded region:



a.

Area = _____



b.

Area = _____

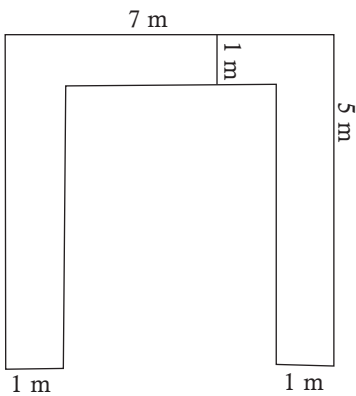
Q7. A picture is to be framed using a 1.5 cm thick wooden border on all four sides. If the length of the picture is 1.2 m and breadth is 80 cm, find the area of the wooden border used.

Answer: _____

Q8. A triangle is inscribed inside a circle such that the diameter of the circle is the base of the triangle. If the radius of the circle is 4 cm and height of the triangle is 2 cm, find the area of the triangle.

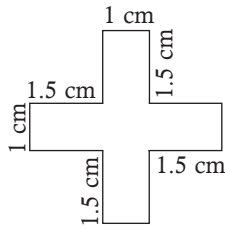
Area of the triangle = _____

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



a.

Area = _____ ; Perimeter = _____



b.

Area = _____ ; Perimeter = _____

Q10. The following table shows the base, height and area of various triangles.
Fill in the missing entries in the table:

Base	Height	Area
4 cm	3 cm	_____
_____	12 cm	18 cm ²
5 cm	_____	25 cm ²
6 cm	_____	15 cm ²

Answers

1. a. 10 cm; b. 100 cm
2. a. 14 cm; b. 22 cm
3. 12 m, 184 m
4. 2904 cm^2
5. 24 tiles
6. a. 36.54 cm^2 ; b. 44 cm^2
7. 609 cm^2
8. 8 cm^2
9. a. Area = 15 m^2 , Perimeter = 32 m ; b. Area = 7 cm^2 , Perimeter = 16 cm
- 10.

Base	Height	Area
4 cm	3 cm	6 cm^2
3 cm	12 cm	18 cm^2
5 cm	10 cm	25 cm^2
6 cm	5 cm	15 cm^2