PERIMETER AND AREA OF PLANE FIGURES

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Q1. Two squares of side 5 cm each are joined side-by-side to form a rectangle. Find the perimeter of the resulting rectangle.

Answer: _____

Q2. Out of the following tick the one having maximum perimeter:

a. A rectangle of length 10 cm and breadth 15 cm

b. A square of side 20 cm

c. An equilateral triangle of side 15 cm

Q3. Match the following figures with their perimeters:

Square	Sum of the lengths of all three sides
Equilateral triangle	8 × length of one side
Scalene triangle	4 × length of one side
A regular octagon	3 × length of one side

Q4. The following table shows the length of the sides of a square and rectangle. If both of them(square and rectangle) have the same perimeter, fill in the missing entries in the table.

Side of square	Length of rectangle	Breadth of rectangle	Perimeter of square and rectangle
6 cm	8 cm	_____	_____
_____ cm	10 cm	5 cm	_____

Q5. Two wires of length 120 m each was bent to form a square and an equilateral triangle. Find the measure of each side of the square and the triangle.

Answer: Measure of each side of the square : ____ m

Measure of each side of the equilateral triangle : ____ m

Q6. The length and breadth of a rectangle are in the ratio 5:2. If the perimeter of the rectangle is 98 m, find the dimensions of the rectangle.

Answer: Length of rectangle: _____ m

Breadth of rectangle: _____ m

Q7. The perimeter of a rectangular table top is 200 cm. If the length of the table top is 55 cm, find the width and area of the table.

Answer: Width of the table: _____

Area of the table: _____

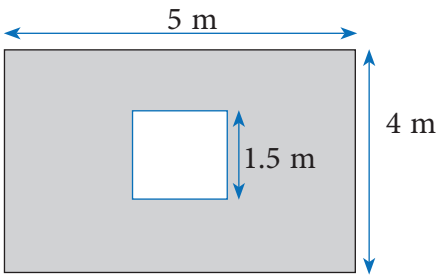
Q8. The area of a square is 400 m^2. If the measure of each side of the square is doubled, find the area of the new bigger square.

Answer: _____

Q9. The gardener wants to make a square flower bed in the middle of a rectangular garden measuring 5 m by 4m as shown in the figure below. In the rest of the area he wants to plant ornamental shrubs. If each side of the flower bed is 1.5 m long, find the area of the following:

a. Area in which he will plants flowers

b. Area in which he will plant ornamental shrubs



Answer:

a. Area in which he will plants flowers : _____

b. Area in which he will plant ornamental shrubs : _____

Q10. The side of a square park is 225 m. Find the cost of:

a. Fencing it at the rate of ₹ 7 per metre

b. Leveling it at the rate of ₹ 12 per m^2

Answer: Cost of fencing it at the rate of ₹ 7 per metre : _____

Cost of leveling it at the rate of ₹ 12 per m^2 : _____

ANSWERS

1. 30 m

2. (b)

3.

Square	4 × length of one side
Equilateral triangle	3 × length of one side
Scalene triangle	Sum of the lengths of all three sides
A regular octagon	8 × length of one side

4.

Side of square	Length of rectangle	Breadth of rectangle	Perimeter of square and rectangle
6 cm	8 cm	4 cm	24 cm
7.5 cm	10 cm	5 cm	30 cm

5. Measure of each side of the square : 30 m
   Measure of each side of the equilateral triangle : 40 m

6. Length of rectangle: 35 m
   Breadth of rectangle: 14 m

7. Width of the table: 45 cm
   Area of the table: 2475 cm^2

8. 1600 m^2

9. a. Area in which he will plants flowers : 2.25 m^2
   b. Area in which he will plant ornamental shrubs :17.75 m^2

10. a. ₹6300
    b. ₹6,07,500