## Worksheet

1. Fill in the blanks.
   a. The perimeter of a square of area 144 cm^2 is _____.
   b. One side of a square whose area is equal to the area of a rectangle of length 16 cm and width 9 cm is _____.
   c. The length of a rectangle is twice its width. If its area is 72 cm^2, its length is _____.
   d. If the areas of two squares are in the ratio 9 : 16, the ratio of their sides is _____.
   e. The ratio of the areas of two squares is 9 : 4. If the side of the smaller square is 8 cm, the side of the bigger square is _____.

2. Choose the correct option.
   a. The side of a square is doubled, its perimeter will
      i. not change   ii. be doubled   iii. be tripled   iv. be halved
   b. The perimeter of a square of area 1 sq. cm is
      i. 1 cm   ii. 4 cm   iii. 2 cm   iv. 8 cm
   c. The area of a rectangle of perimeter 8 m and length 3 m is
      i. 24 sq m   ii. 15 sq m   iii. 3 sq m   iv. 4 sq m
   d. If the area of a square is equal to its perimeter, its side will be
      i. 2 units   ii. 4 units   iii. 8 units   iv. 1 units
   e. If the sum of the length and breadth of a room is 20 m, its perimeter is
      i. 40 m   ii. 20 m   iii. 10 m   iv. 160 m

3. State true or false.
   a. If the side of a square is halved, its perimeter does not change.
   b. If the perimeter of a square is equal to that of a rectangle, then square has a larger area.
   c. The number of squares of maximum size that can be cut from a rectangular sheet of length 1 m and width 50 cm is 2.
   d. The area of a rectangle of length 1 m and breadth 0.5 m is 3 cm.
   e. The ratio between the areas of two squares whose sides are in the ratio 2 : 3 is 4 : 6.

4. Find the area and perimeter of the squares whose
   a. side = 24 cm   b. side = 3.6 m

5. Find the perimeter and area of the following rectangles.
   a. Length = 18 cm, breadth = 12 cm b. Length = 14.5 cm, breadth = 9.6 cm

6. The perimeter of a square courtyard is 52 m. Find the cost of cementing the courtyard at the rate of ₹ 15 per square metre.

7. The cost of fencing a square plot at the rate of ₹ 4.50 per metre is ₹ 3249. What is the measurement of one side of the field?

8. A rectangular orchard is to be fenced on three sides leaving a side 72 m uncovered. If the area of the orchard is 7344 square metre, how many metres of fencing is required?

9. Find the area and perimeter of the shaded region.
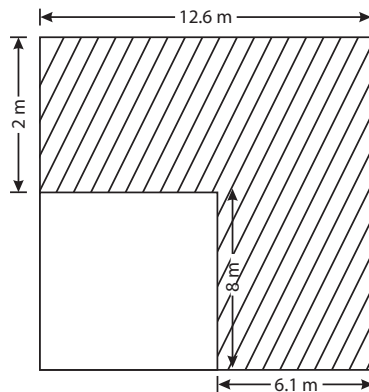
10. A rectangular park 100 m × 80 m has two crossroads each of width 6 m. What is the cost of cementing the crossroads at the rate of ₹ 10.50 per square metre?
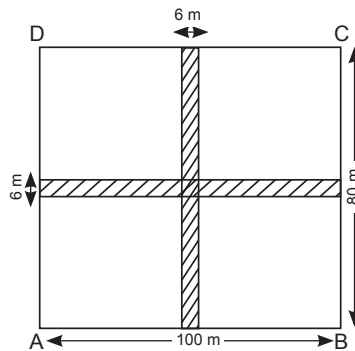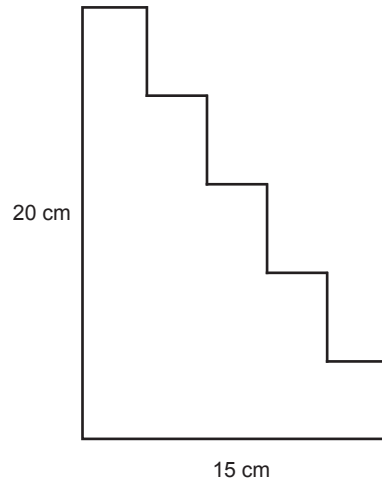

11. Find the area of the shaded region, if the shaded region has equal width along the length and breadth.
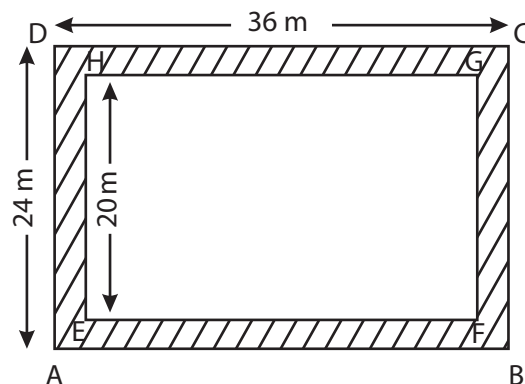

12. A dining table cover is 3 m long and 1.75 m wide. It is printed around the border whose width is 10 cm. If the cost of printing is ₹ 5 per 100 sq. cm, what is the total cost for printing its border?

13. A hall is 12.5 m long and 10 m wide. Find the maximum number of whole square tiles required to tile the floor of the room, if the side of each square tile is 2.5 m.

14. What is the perimeter of the figure given below when each step is 4 cm high and 3 cm wide?

20 cm

15 cm

15. Find the area of the shaded region in the given figure.

7 m

7 m
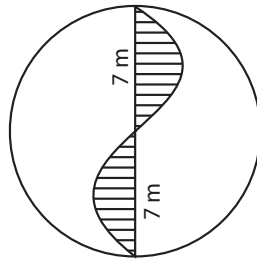
16. Find the area of a road 2.5 m wide which is inside a square garden of side 205 m.

2.5 m

205 m
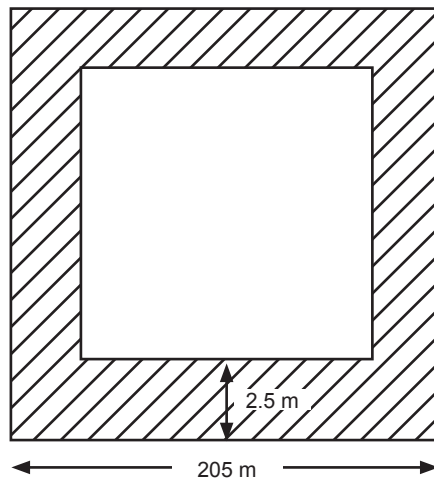
Answers to Worksheet

1. a. 48 cm   b. 12 cm   c. 12 cm   d. 3:4   e. 12 cm

2. a. ii   b. ii   c. iii   d. ii   e. i

3. a. False   b. True   c. True   d. False   e. False

4. a. A = 576 sq. cm   P = 96 cm   b. A = 12.96 sq. m   P = 14.4 m

5. a. A = 216 sq. cm   P = 60 cm   b. A = 139.2 sq. cm   P = 48.2 cm

6. ₹ 2535   7. 180.5 m   8. 276 m   9. A = 74 sq. m   P = 45.2 m

10. ₹ 10962   11. 224 sq. m   12. ₹ 455   13. 20 tiles

14. 70 cm   15. 38.5 cm^2 16. 2025 m^2