

Worksheet

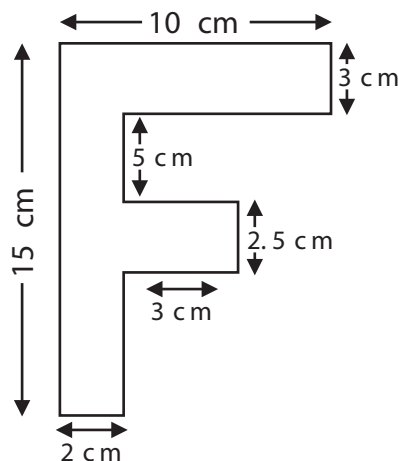
1. State whether true or false.
 - a. If the areas of two rectangles are same, then they must have the same dimensions.
 - b. If the dimensions of two rectangles are same, then they must have the same perimeter.
 - c. The perimeter of a square is 4 times the length of one of its sides.
 - d. The area of a square is x^2 cm², so its perimeter must be $4x$ cm.
2. Siddhesh takes 2 rounds around a square park and covers a distance of 120 m. Find the area of the park.
3. The perimeter of a rectangle is 120 cm. If the length of the rectangle is 40 cm, find its area.
4. Find the cost of tiling a square room whose side is 20 m, at the rate of ₹ 2 per sq. m.
5. Find the perimeter of a quadrilateral whose sides are 10 cm, 8 cm, 6 cm and 4 cm.

6. An athlete takes two rounds of a rectangular park daily. If the dimensions of the park are 30 m and 25 m, then find how much distance does he cover in 10 days in kilometres?

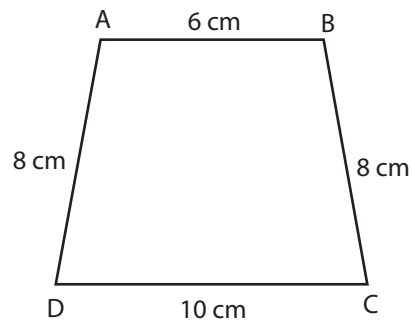


7. In the given figure, the shaded portion is the area to be painted. The dimensions of the outer rectangle are 15 cm and 10 cm. If the width of the border all around is 2 cm, then find the area of the rectangle to be painted.

8. Find the area of the given figure.



9. The length and breadth of a rectangular floor are 72 m and 20 m, respectively. Find:
- its perimeter.
 - the cost of paving it with tiles at the rate of ₹ 7 per sq. m.
 - the number of complete tiles required, if the size of each tile is 4 m × 4 m.
10. Find the perimeter of a square if its area is 225 sq. m.
11. The cost of paving a rectangular hall at the rate of ₹16 per sq. m is ₹ 2400. If the length of the hall is 15 m, what is its perimeter?
12. The area of a rectangular field is 5 hectares. If the rate of tiling is ₹ 2 per sq. m, what is the cost of tiling this field?
13. Length of a rectangular plot is 200 m and its area is 1 hectare. What is the perimeter of the plot?
14. The perimeter of a $\triangle ABC$ is 29 cm. If AB is longer than BC by 8 cm and AC is longer than BC by 3 cm, then find the lengths of the sides of $\triangle ABC$.
15. Two rectangles have the same breadth 15 cm. The length of first rectangle is less than that of the other by 6 cm. If the perimeter of the first rectangle is 66 cm, then find the perimeter of the second rectangle.
16. For the given quadrilateral, find the perimeter. If we want to draw a rectangle with the same base of 10 cm and the same perimeter, what should be its breadth and what will be its area?



Answers to Worksheet

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|-----------------------|-------------------------|-------------------------------------|-------------|
| 1. a. False | b. True | c. True | d. True |
| 2. 225 m ² | 3. 800 cm ² | 4. ₹ 800 | 5. 28 cm |
| 7. 66 cm ² | 8. 61.5 cm ² | 9. a. 184 m | 6. 2.2 km |
| 10. 60 m | 11. 50 m | 12. ₹ 100000 | b. ₹10080 |
| 14. 6 cm, 14 cm, 9 cm | 15. 78 cm | 13. 500 m | c. 90 tiles |
| | | 16. 32 cm; 6 cm; 60 cm ² | |