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Class-06

Sub-.Maths

Date 20.06..2021

5. What is the cost of tiling a rectangular plot of land 500 m long and 200 m wide at the rate of ₹ 8 per hundred sq m.?

Solutions:

Area of land = length \times breadth

$$= 500 \times 200$$

$$= 1,00,000 \text{ m}^2$$

$$\therefore \text{Cost of tiling } 1,00,000 \text{ sq m of land} = (8 \times 1,00,000) / 100$$

$$= ₹ 8000$$

6. A table top measures 2 m by 1 m 50 cm. What is its area in square metres?

Solutions:

Given

$$l = 2\text{m}$$

$$b = 1\text{m } 50 \text{ cm} = 1.50 \text{ m}$$

$$\text{Area} = l \times b = 2 \times 1.50$$

$$= 3 \text{ m}^2$$

7. A room is 4 m long and 3 m 50 cm wide. How many square metres of carpet is needed to cover the floor of the room?

Solutions:

Given

$$l = 4\text{m}$$

$$b = 3 \text{ m } 50 \text{ cm} = 3.50 \text{ m}$$

$$\text{Area} = l \times b = 4 \times 3.50$$

$$= 14 \text{ m}^2$$

8. A floor is 5 m long and 4 m wide. A square carpet of sides 3 m is laid on the floor. Find the area of the floor that is not carpeted.

Solutions:

$$\text{Area of floor} = l \times b = 5 \times 4$$

$$= 20 \text{ m}^2$$

$$\text{Area of square carpet} = 3 \times 3$$

$$= 9 \text{ m}^2$$

$$\text{Area of floor that is not carpeted} = 20 - 9$$

$$= 11 \text{ m}^2$$

\therefore Area of the floor that is not carpeted is 11 m^2

9. Five square flower beds each of sides 1 m are dug on a piece of land 5 m long and 4 m wide. What is the area of the remaining part of the land?

Solutions:

$$\text{Area of flower square bed} = 1 \times 1$$

$$= 1 \text{ m}^2$$

$$\text{Area of 5 square bed} = 1 \times 5$$

$$= 5 \text{ m}^2$$

$$\text{Area of land} = 5 \times 4$$

$$= 20 \text{ m}^2$$

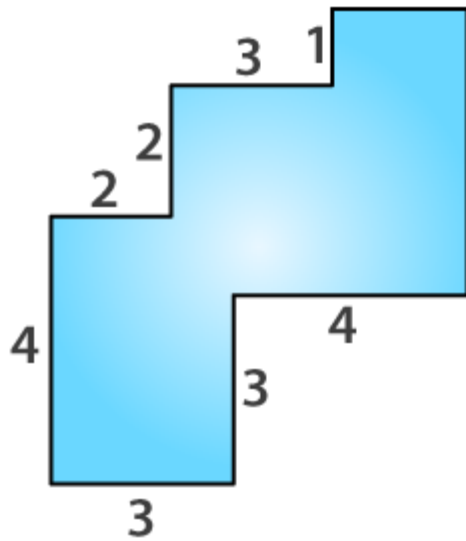
$$\text{Remaining part of the land} = \text{Area of land} - \text{Area of 5 square bed}$$

$$= 20 - 5$$

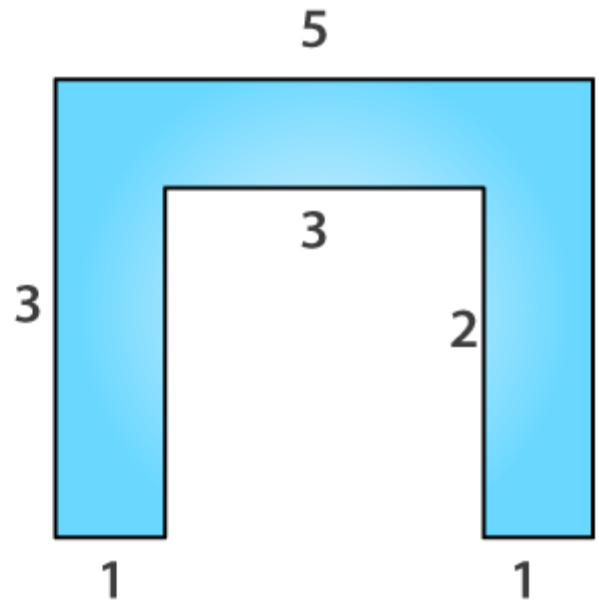
$$= 15 \text{ m}^2$$

\therefore Remaining part of the land is 15 m^2

10. By splitting the following figures into rectangles, find their areas (The measures are given in centimetres).



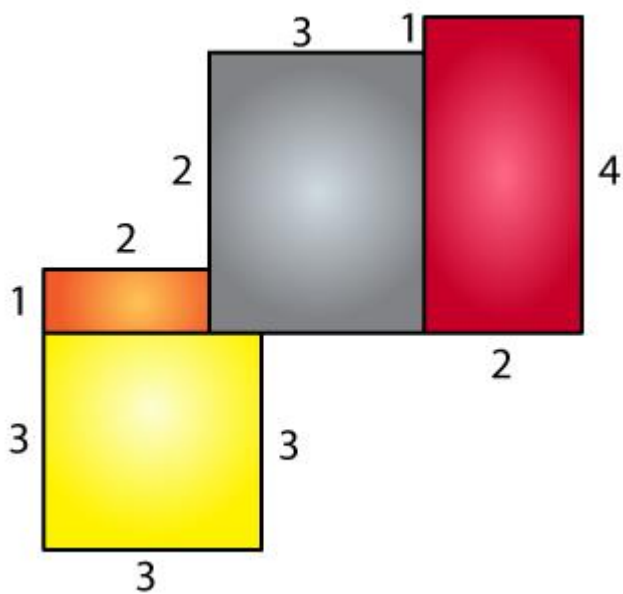
(a)



(b)

Solutions:

(a)



Area of yellow region = 3×3
 = 9 cm^2

Area of orange region = 1×2

= 2 cm^2

Area of grey region = 3×3

= 9 cm^2

Area of brown region = 2×4

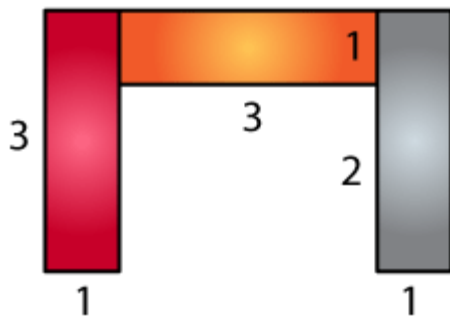
= 8 cm^2

Total area = $9 + 2 + 9 + 8$

= 28 cm^2

\therefore Total area is 28 cm^2

(b)



Area of brown region = 3×1

= 3 cm^2

Area of orange region = 3×1

= 3 cm^2

Area of grey region = 3×1

= 3 cm^2

Total area = $3 + 3 + 3$

= 9 cm^2

\therefore Total area is 9 cm^2