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NCERT Solutions for 6th Class Maths: Chapter 10- Mensuration



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NCERT Solutions for 6th Class Maths: Chapter 10-Mensuration

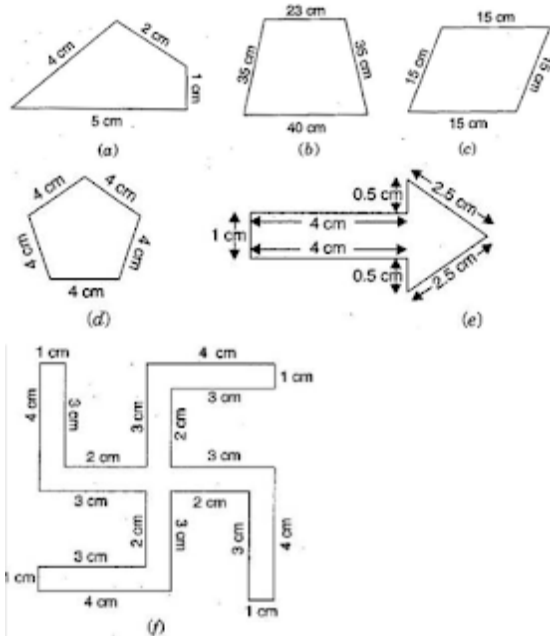
Class 6: Maths Chapter 10 solutions. Complete Class 6 Maths Chapter 10 Notes.

NCERT Solutions for 6th Class Maths: Chapter 10-Mensuration

NCERT 6th Maths Chapter 10, class 6 Maths Chapter 10 solutions

Exercise 10.1

1. Find the perimeter of each of the following figures:



Answer

(a) Perimeter = Sum of all the sides

$$= 4 \text{ cm} + 2 \text{ cm} + 1 \text{ cm} + 5 \text{ cm}$$

$$= 12 \text{ cm}$$

(b) Perimeter = Sum of all the sides

$$= 23 \text{ cm} + 35 \text{ cm} + 40 \text{ cm} + 35 \text{ cm}$$

$$= 133 \text{ cm}$$

(c) Perimeter = Sum of all the sides

$$= 15 \text{ cm} + 15 \text{ cm} + 15 \text{ cm} + 15 \text{ cm}$$

$$= 60 \text{ cm}$$

(d) Perimeter = Sum of all the sides

$$= 4 \text{ cm} + 4 \text{ cm} + 4 \text{ cm} + 4 \text{ cm} + 4 \text{ cm}$$

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$$= 20 \text{ cm}$$

(e) Perimeter = Sum of all the sides

$$= 1 \text{ cm} + 4 \text{ cm} + 0.5 \text{ cm} + 2.5 \text{ cm} + 2.5 \text{ cm} + 0.5 \text{ cm} + 4 \text{ cm}$$

$$= 15 \text{ cm}$$

(f) Perimeter = Sum of all the sides

$$= 4 \text{ cm} + 1 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 4 \text{ cm} + 1 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 4 \text{ cm} +$$

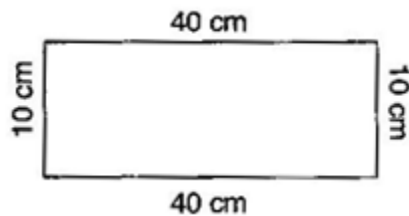
$$1 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 4 \text{ cm} + 1 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm}$$

$$= 52 \text{ cm}$$

2. The lid of a rectangular box of sides 40 cm by 10 cm is sealed all round with tape. What is the length of the tape required?

Answer

Total length of tape required = Perimeter of rectangle



$$= 2 (\text{ length} + \text{ breadth})$$

$$= 2 (40 + 10)$$

$$= 2 \times 50$$

$$= 100 \text{ cm} = 1 \text{ m}$$

Thus, the total length of tape required is 100 cm or 1 m.

3. A table-top measures 2 m 25 cm by 1 m 50 cm. What is the perimeter of the table-top?

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Answer

Length of table top = 2 m 25 cm = 2.25 m

Breadth of table top = 1 m 50 cm = 1.50 m

Perimeter of table top = $2 \times (\text{length} + \text{breadth})$

$$= 2 \times (2.25 + 1.50)$$

$$= 2 \times 3.75 = 7.50 \text{ m}$$

Thus, perimeter of table top is 7.5 m.

4. What is the length of the wooden strip required to frame a photograph of length 32 cm and breadth 21 cm respectively?

Answer

Length of wooden strip = Perimeter of photograph

Perimeter of photograph = $2 \times (\text{length} + \text{breadth})$

$$= 2 (32 + 21)$$

$$= 2 \times 53 \text{ cm} = 106 \text{ cm}$$

Thus, the length of the wooden strip required is 106 cm.

5. A rectangular piece of land measures 0.7 km by 0.5 km. Each side is to be fenced with 4 rows of wires. What is the length of the wire needed?

Answer

Since the 4 rows of wires are needed. Therefore the total length of wires is equal to 4 times the perimeter of rectangle.

Perimeter of rectangular piece of land = $2 \times (\text{length} + \text{breadth})$

$$= 2 \times (0.7 + 0.5)$$

$$= 2 \times 1.2$$

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$$= 2.4 \text{ km}$$

$$= 2.4 \times 1000 \text{ m}$$

$$= 2400 \text{ m}$$

Thus, the length of wire = $4 \times 2400 = 9600 \text{ m} = 9.6 \text{ km}$

6. Find the perimeter of each of the following shapes:

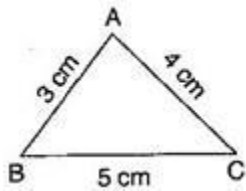
(a) A triangle of sides 3 cm, 4 cm and 5 cm.

(b) An equilateral triangle of side 9 cm.

(c) An isosceles triangle with equal sides 8 cm each and third side 6 cm.

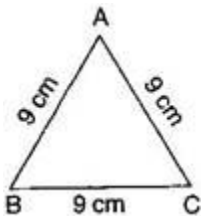
Answer

(a) Perimeter of $\triangle ABC$ $\triangle ABC = AB + BC + CA$



$$= 3 \text{ cm} + 5 \text{ cm} + 4 \text{ cm} = 12 \text{ cm}$$

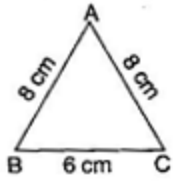
(b) Perimeter of equilateral $\triangle ABC$ $\triangle ABC = 3 \times \text{side}$



$$= 3 \times 9 \text{ cm} = 27 \text{ cm}$$

(c) Perimeter of $\triangle ABC$ $\triangle ABC = AB + BC + CA$

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$$= 8 \text{ cm} + 6 \text{ cm} + 8 \text{ cm} = 22 \text{ cm}$$

7. Find the perimeter of a triangle with sides measuring 10 cm, 14 cm and 15 cm.

Answer

Perimeter of triangle = Sum of all three sides

$$= 10 \text{ cm} + 14 \text{ cm} + 15 \text{ cm} = 39 \text{ cm}$$

Thus, perimeter of triangle is 39 cm.

8. Find the perimeter of a regular hexagon with each side measuring 8 cm.

Answer

Perimeter of Hexagon = $6 \times$ length of one side

$$= 6 \times 8 \text{ m} = 48 \text{ m}$$

Thus, the perimeter of hexagon is 48 m.

9. Find the side of the square whose perimeter is 20 m.

Answer

Perimeter of square = $4 \times$ side

$$\Rightarrow 20 = 4 \times \text{side}$$

$$\Rightarrow \text{side} = 20/4 = 5 \text{ cm}$$

Thus, the side of square is 5 cm.

10. The perimeter of a regular pentagon is 100 cm. How long is its each side?

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Answer

Perimeter of regular pentagon = 100 cm

$$\Rightarrow 5 \times \text{side} = 100 \text{ cm}$$

$$\Rightarrow \text{side} = 100/5 = 20 \text{ cm}$$

Thus, the side of regular pentagon is 20 cm.

11. A piece of string is 30 cm long. What will be the length of each side if the string is used to form:

(a) a square

(b) an equilateral triangle

(c) a regular hexagon?

Answer

Length of string = Perimeter of each figure

(a) Perimeter of square = 30 cm

$$\Rightarrow 4 \times \text{side} = 30 \text{ cm}$$

$$\Rightarrow \text{side} = 30/4 = 7.5 \text{ cm}$$

Thus, the length of each side of square is 7.5 cm.

(b) Perimeter of equilateral triangle = 30 cm

$$\Rightarrow 3 \times \text{side} = 30 \text{ cm}$$

$$\Rightarrow \text{side} = 30/3 = 10 \text{ cm}$$

Thus, the length of each side of equilateral triangle is 10 cm.

(c) Perimeter of hexagon = 30 cm

$$\Rightarrow 6 \times \text{side} = 30 \text{ cm}$$

$$\Rightarrow \text{side} = 30/6 = 5 \text{ cm}$$

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Thus, the length of each side of hexagon is 5 cm.

12. Two sides of a triangle are 12 cm and 14 cm. The perimeter of the triangle is 36 cm. What is the third side?

Answer

Let the length of third side be x cm.

Length of other two side are 12 cm and 14 cm.

Now, Perimeter of triangle = 36 cm

$$\Rightarrow 12+14+x = 36$$

$$\Rightarrow 26+x = 36$$

$$\Rightarrow x = 36-26$$

$$\Rightarrow x=10$$

Thus, the length of third side is 10 cm.

13. Find the cost of fencing a square park of side 250 m at the rate of Rs 20 per meter.

Answer

Side of square = 250 m

Perimeter of square = $4 \times$ side

$$= 4 \times 250 = 1000 \text{ m}$$

Since, cost of fencing per meter = Rs. 20

Therefore, cost of fencing of 1000 meters = $20 \times 1000 =$ Rs. 20,000

14. Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of Rs. 12 per meter.

Answer

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Length of rectangular park = 175 m

Breadth of rectangular park = 125 m

Perimeter of park = $2 \times (\text{length} + \text{breadth})$

$$= 2 \times (175 + 125)$$

$$= 2 \times 300 = 600 \text{ m}$$

Since, cost of fencing park per meter = Rs. 12

Therefore, cost of fencing park of 600 m = $12 \times 600 = \text{Rs. } 7,200$

15. Sweety runs around a square park of side 75 m. Bulbul runs around a rectangular park with length of 60 m and breadth 45 m. Who covers less distance?

Answer

Distance covered by Sweety = Perimeter of square park

Perimeter of square = $4 \times \text{side}$

$$= 4 \times 75 = 300 \text{ m}$$

Thus, distance covered by Sweety is 300 m.

Now, distance covered by Bulbul = Perimeter of rectangular park

Perimeter of rectangular park = $2 \times (\text{length} + \text{breadth})$

$$= 2 \times (60 + 45)$$

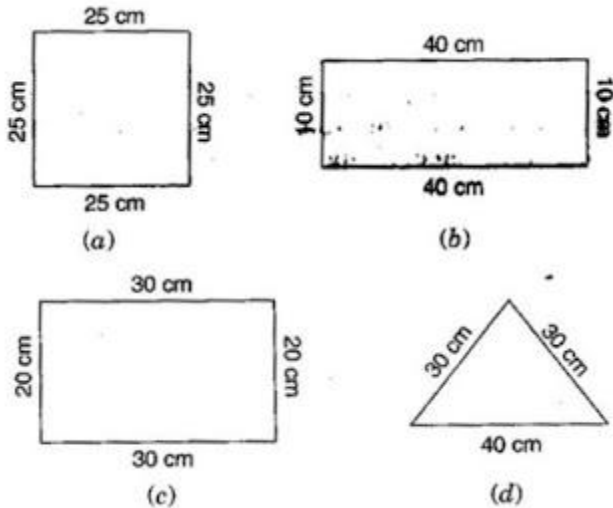
$$= 2 \times 105 = 210 \text{ m}$$

Thus, Bulbul covers the distance of 210 m.

So, Bulbul covers less distance.

16. What is the perimeter of each of the following figures? What do you infer from the answer?

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Answer

(a) Perimeter of square = $4 \times \text{side}$

$$= 4 \times 25 = 100 \text{ cm}$$

(b) Perimeter of rectangle = $2 \times (\text{length} + \text{breadth})$

$$= 2 \times (40 + 10)$$

$$= 2 \times 50 = 100 \text{ cm}$$

(c) Perimeter of rectangle = $2 \times (\text{length} + \text{breadth})$

$$= 2 \times (30 + 20)$$

$$= 2 \times 50 = 100 \text{ cm}$$

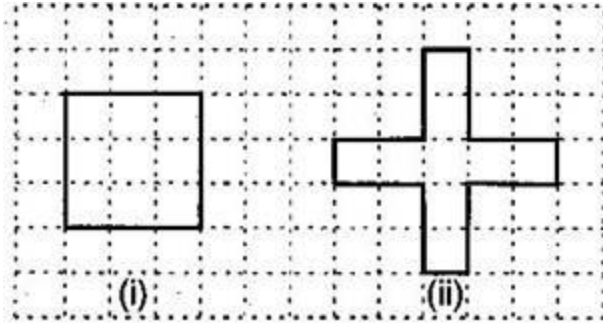
(d) Perimeter of triangle = Sum of all sides

$$= 30 \text{ cm} + 30 \text{ cm} + 40 \text{ cm} = 100 \text{ cm}$$

Thus, all the figures have same perimeter.

17. Avneet buys 9 square paving slabs, each with a side 1212 m. He lays them in the form of a square

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- (a) What is the perimeter of his arrangement?
- (b) Shari does not like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement?
- (c) Which has greater perimeter?
- (d) Avneet wonders, if there is a way of getting an even greater perimeter. Can you find a way of doing this? (The paving slabs must meet along complete edges, i.e., they cannot be broken.)

Answer

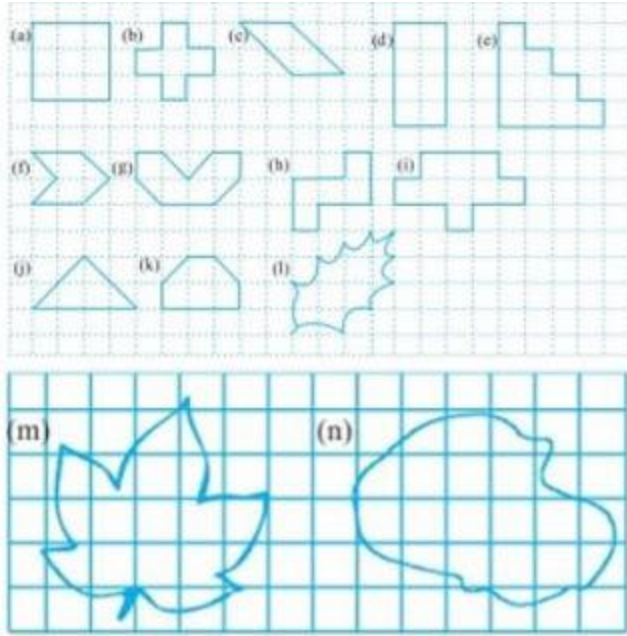
- (a) 6 m
- (b) 10 m
- (c) Second arrangement has greater perimeter.
- (d) Yes, if all the squares are arranged in row, the perimeter be 10 cm.

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Exercise 10.2

1. Find the areas of the following figures by counting squares:

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Answer

(a) Number of filled square = 9

Area covered by squares = $9 \times 1 = 9$ sq. units

(b) Number of filled squares = 5

Area covered by filled squares = $5 \times 1 = 5$ sq. units

(c) Number of full filled squares = 2

Number of half filled squares = 4

Area covered by full filled squares = $2 \times 1 = 2$ sq. units

And, Area covered by half filled squares = $1/2 \times 4 = 2$ sq. units

Total area = $2 + 2 = 4$ sq. units

(d) Number of filled squares = 8

Area covered by filled squares = $8 \times 1 = 8$ sq. units

(e) Number of filled squares = 10

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Area covered by filled squares = $10 \times 1 = 10$ sq. units

(f) Number of full filled squares = 2

Number of half filled squares = 4

Area covered by full filled squares = $2 \times 1 = 2$ sq. units

And Area covered by half filled squares = $1/2 \times 4 = 2$ sq. units

Total area = $2 + 2 = 4$ sq. units

(g) Number of full filled squares = 4

Number of half filled squares = 4

Area covered by full filled squares = $4 \times 1 = 4$ sq. units

And, Area covered by half filled squares = $1/2 \times 4 = 2$ sq. units

Total area = $4 + 2 = 6$ sq. units

(h) Number of filled squares = 5

Area covered by filled squares = $5 \times 1 = 5$ sq. units

(i) Number of filled squares = 9

Area covered by filled squares = $9 \times 1 = 9$ sq. units

(j) Number of full filled squares = 2

Number of half filled squares = 4

Area covered by full filled squares = $2 \times 1 = 2$ sq. units

And Area covered by half filled squares = $1/2 \times 4 = 2$ sq. units

Total area = $2 + 2 = 4$ sq. units

(k) Number of full filled squares = 4

Number of half filled squares = 2

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Area covered by full filled squares = $4 \times 1 = 4$ sq. units

And Area covered by half filled squares = $1/2 \times 2 = 1$ sq. units

Total area = $4 + 1 = 5$ sq. units

(l) Number of full filled squares = 3

Number of half filled squares = 10

Area covered by full filled squares = $3 \times 1 = 3$ sq. units

And Area covered by half filled squares = $1/2 \times 10 = 5$ sq. units

Total area = $3 + 5 = 8$ sq. units

(m) Number of full filled squares = 7

Number of half filled squares = 14

Area covered by full filled squares = $7 \times 1 = 7$ sq. units

And Area covered by half filled squares = $1/2 \times 14 = 7$ sq. units

Total area = $7 + 7 = 14$ sq. units

(n) Number of full filled squares = 10

Number of half filled squares = 16

Area covered by full filled squares = $10 \times 1 = 10$ sq. units

And Area covered by half filled squares = $1/2 \times 16 = 8$ sq. units

Total area = $10 + 8 = 18$ sq. units

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Exercise 10.3

1. Find the areas of the rectangles whose sides are:

(a) 3 cm and 4 cm

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(b) 12 m and 21 m

(c) 2 km and 3 km

(d) 2 m and 70 cm

Answer

(a) Area of rectangle = length \times breadth

$$= 3 \text{ cm} \times 4 \text{ cm} = 12 \text{ cm}^2$$

(b) Area of rectangle = length \times breadth

$$= 12 \text{ m} \times 21 \text{ m} = 252 \text{ m}^2$$

(c) Area of rectangle = length \times breadth

$$= 2 \text{ km} \times 3 \text{ km} = 6 \text{ km}^2$$

(d) Area of rectangle = length \times breadth

$$= 2 \text{ m} \times 70 \text{ cm} = 2 \text{ m} \times 0.7 \text{ m} = 1.4 \text{ m}^2$$

2. Find the areas of the squares whose sides are:

(a) 10 cm (b) 14 cm (c) 5 m

Answer

(a) Area of square = side \times side

$$= 10 \text{ cm} \times 10 \text{ cm} = 100 \text{ cm}^2$$

(b) Area of square = side \times side

$$= 14 \text{ cm} \times 14 \text{ cm} = 196 \text{ cm}^2$$

(c) Area of square = side \times side

$$= 5 \text{ m} \times 5 \text{ m} = 25 \text{ m}^2$$

3. The length and the breadth of three rectangles are as given below:

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(a) 9 m and 6 m

(b) 17 m and 3 m

(c) 4 m and 14 m

Which one has the largest area and which one has the smallest?

Answer

(a) Area of rectangle = length \times breadth

$$= 9 \text{ m} \times 6 \text{ m} = 54 \text{ m}^2$$

(b) Area of rectangle = length \times breadth

$$= 3 \text{ m} \times 17 \text{ m} = 51 \text{ m}^2$$

(c) Area of rectangle = length \times breadth

$$= 4 \text{ m} \times 14 \text{ m} = 56 \text{ m}^2$$

Thus, the rectangle (c) has largest area, i.e. 56 m^2 and rectangle (b) has smallest area, i.e., 51 m^2 .

4. The area of a rectangular garden 50 m long is 300 m^2 , find the width of the garden.

Answer

Length of rectangle = 50 m and Area of rectangle = 300 m^2

Since, Area of rectangle = length \times breadth

$$\text{Therefore, Breadth} = \frac{\text{Area of rectangle}}{\text{Length}} = 300/50 = 6 \text{ m}$$

Thus, the breadth of the garden is 6 m.

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

Answer

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Length of land = 500 m and Breadth of land = 200 m

Area of land = length \times breadth = 500 m \times 200 m = 1,00,000 m²

\therefore Cost of tiling 100 sq. m of land = Rs. 8

\therefore Cost of tiling 1,00,000 sq. m of land = $8/100 \times 100000$ = Rs. 8000

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

Answer

Length of table = 2 m and breadth of table = 1 m 50 cm = 1.50 m

Area of table = length \times breadth

= 2 m \times 1.50 m = 3 m²

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

Answer

Length of room = 4 m and breadth of room = 3 m 50 cm = 3.50 m

Area of carpet = length \times breadth

= 4 \times 3.50 = 14m²

Therefore, 14m² of carpet required to cover the floor.

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.

Answer

Length of floor = 5 m and breadth of floor = 4 m

Area of floor = length \times breadth

= 5 m \times 4 m = 20 m²

Now, Side of square carpet = 3 m

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Area of square carpet = side \times side = $3 \times 3 = 9 \text{ m}^2$

Area of floor that is not carpeted = $20 \text{ m}^2 - 9 \text{ m}^2 = 11 \text{ m}^2$

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?

Answer

Side of square bed = 1 m

Area of square bed = side \times side = 1 m \times 1 m = 1 m^2

\therefore Area of 5 square beds = $1 \times 5 = 5 \text{ m}^2$

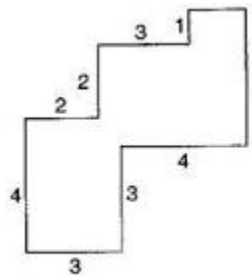
Now, Length of land = 5 m and breadth of land = 4 m

\therefore Area of land = length \times breadth = 5 m \times 4 m = 20 m^2

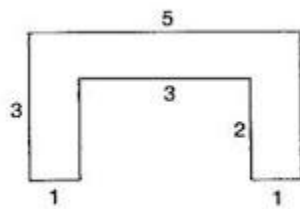
Area of remaining part = Area of land – Area of 5 flower beds

= $20 \text{ m}^2 - 5 \text{ m}^2 = 15 \text{ m}^2$

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



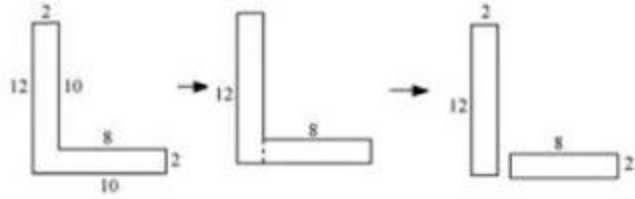
(a)



(b)

Answer

(a) The given figure can be broken into rectangles as

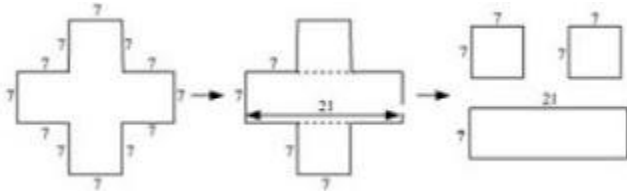


Area of 1st rectangle = $12 \times 2 = 24 \text{ cm}^2$

Area of 2nd rectangle = $8 \times 2 = 16 \text{ cm}^2$

Total area of the figure = $24 + 16 = 40 \text{ cm}^2$

(b) The given figure can be broken into rectangles as follow



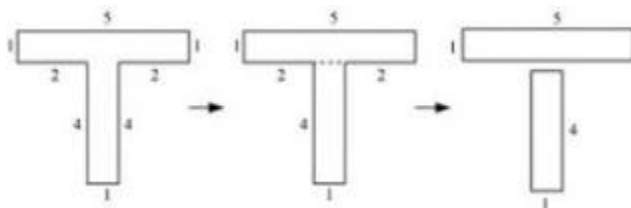
Area of 1st rectangle = $21 \times 7 = 147 \text{ cm}^2$

Area of 1st square = $7 \times 7 = 49 \text{ cm}^2$

Area of 2nd square = $7 \times 7 = 49 \text{ cm}^2$

Total area of the figure = $147 + 49 + 49 = 245 \text{ cm}^2$

(c) The given figure can be broken into rectangles as follow



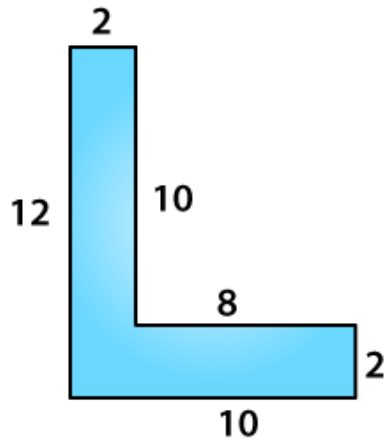
Area of 1st rectangle = $5 \times 1 = 5 \text{ cm}^2$

Area of 2nd rectangle = $4 \times 1 = 4 \text{ cm}^2$

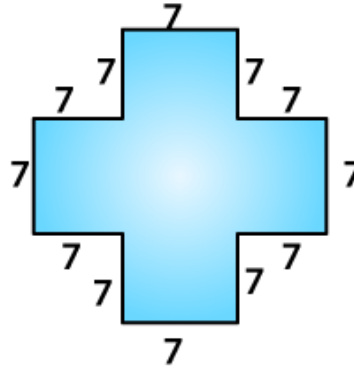
Total area of the figure = $5 + 4 = 9 \text{ cm}^2$

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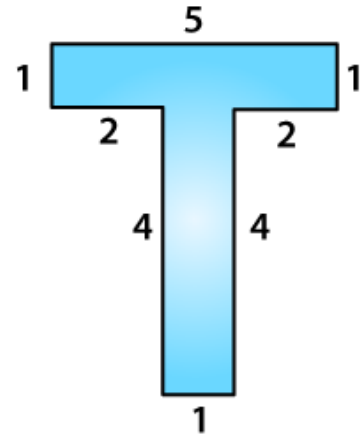
11. Split the following shapes into rectangles and find their areas. (The measures are given in centimetres)



(a)



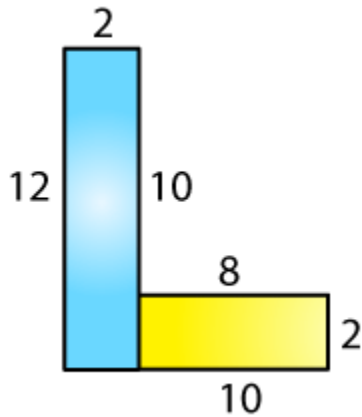
(b)



(c)

Answer

(a)

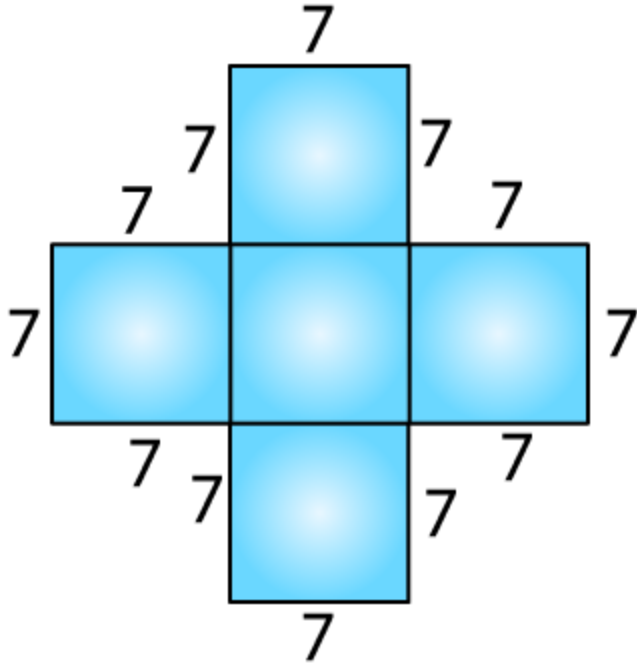


Total area of the figure = $12 \times 2 + 8 \times 2$

= 40 cm^2

(b)

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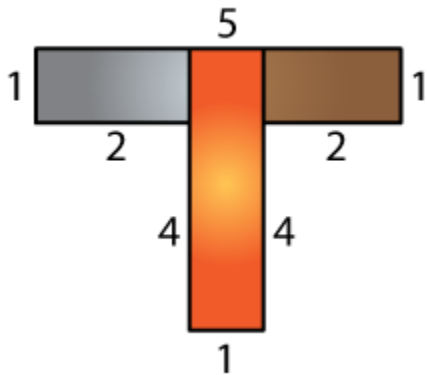


There are 5 squares. Each side is 7 cm

$$\text{Area of 5 squares} = 5 \times 7^2$$

$$= 245 \text{ cm}^2$$

(c)



Area of grey rectangle = 2×1

$$= 2 \text{ cm}^2$$

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Area of brown rectangle = 2×1

= 2 cm^2

Area of orange rectangle = 5×1

= 5 cm^2

Total area = $2 + 2 + 5$

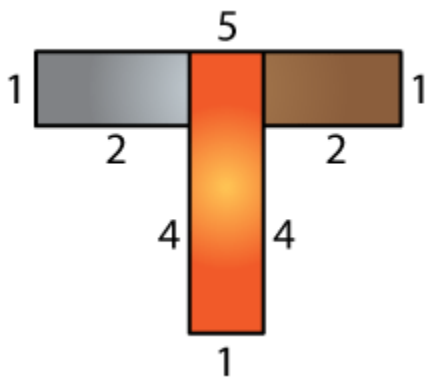
= 9 cm^2

12. How many tiles whose length and breadth are 12 cm and 5 cm respectively will be needed to fit in a rectangular region whose length and breadth are respectively:

(a) 100 cm and 144 cm

(b) 70 cm and 36 cm

Answer



NCERT 6th Maths Chapter 10, class 6 Maths Chapter 10 solutions



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Chapterwise NCERT Solutions for Class 6 Maths :

- Chapter 1 Knowing Our Numbers
- Chapter 2 Whole Numbers
- Chapter 3 Playing with Numbers
- Chapter 4 Basic Geometrical Ideas
- Chapter 5 Understanding Elementary Shapes
- Chapter 6 Integers
- Chapter 7 Fractions
- Chapter 8 Decimals
- Chapter 9 Data Handling
- Chapter 10 Mensuration
- Chapter 11 Algebra
- Chapter 12 Ratio and Proportion
- Chapter 13 Symmetry
- Chapter 14 Practical Geometry

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