Class-V Math

CHAPTER: - 3 How many squares

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Question 1. Measure the side of the red square on the dotted sheet. draw here as many rectangles as possible using 12 such squares. How many rectangles could you make?

Solution: The side 7 square is 1 cm.

The following figure shows the possible rectangles using 12 squares.

There are 7 rectangles.

2 rectangles are of size 1 x 12 cm.

1 rectangles are of size 2 x 6 cm.

4 rectangles are of size3 x 4 cm.

Have a number of rectangles =2 +1+ 4 =7

Question 2. Which of these rectangles has the longest perimeter?

Solution: the perimeter of rectangles 1 x 12 cm.

=2(l + b)

= 2(1 + 12) = 2 x 13

= 26 cm.

The perimeter of the rectangle 2 x 6 cm.

= 2(l + b)

= 2(2 + 6) = 2 x 8

= 16 cm

The perimeter of the rectangle 3 x 4 . cm

   = 2(l + b)

   = 2(3 + 4) = 2 x 7

   = 14cm

Since the rectangle 1 x 12 has the longest perimeter.

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Question 3: Which of these rectangles has the smallest perimeter?

 Solution. the rectangle 3 X 4 has the smallest perimeter

Question 4.

 1) Stamp D cover 12 squares. each square is of side 1 cm.

 so the area of stamp D is12 square cm.

Look at these interesting stamps. how many squares of the one-centimeter side does stamp a cover?

Solution. Area of stamp A = l x b

                          = 6 x 3 =18 cm

b). which stamps have the biggest area.

 Solution. Area of two rectangles = area of red rectangle +area of green rectangle.

     12cm +18 cm =30 . square cm

red triangle's area is half of the rectangle =

$$= \frac{1}{2} \times 30 = 15 \text{ square cm}$$

Have both triangles have the same area?

Subjective Type questions :

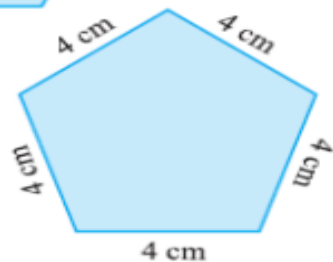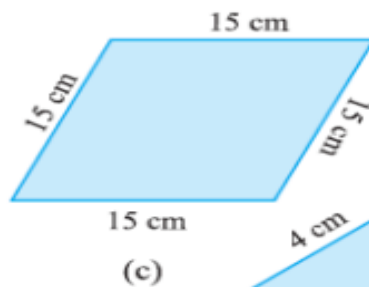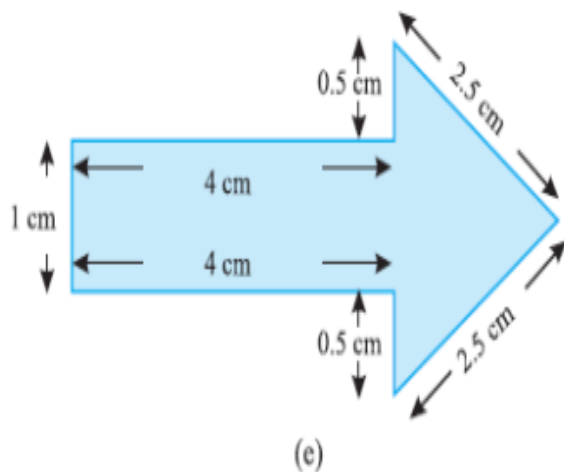1. Find the area of the square with

a. Side = 14 cm

b. Side = 8 m

2. Find the area of rectangle with

a) l = 15 cm b = 10 cm   b) l = 25m   b = 9.5 m

3. Find the perimeter of the following shapes

4. Find the perimeter of a square whose

 a) side = 18 cm   b) side = 36.25 m

 5. Find the perimeter of rectangle whose

a) ℓ = 24 cm b = 16 cm   b) ℓ = 32 m b = 25 m

5. A rectangular field is 425 m long 160 m broad. Find the perimeter of the field in km.

6. A square park has a side of 80 m. Find the total distance you cover in jogging around it 5 times.

Fill in the blanks:

1. The distance around a closed figure is called its _____.

2. Area is expressed in _____ units.

3. The area of a square of side 1 cm is _____.

4. The perimeter of a square is ⸺⸺⸺⸺⸺⸺

5. All sides of a square are _____ in length.

6. Area of a square = _____ x _____.