

Temperature: -

Ex-12.4

B. Solve these word problems:-

1. Cost of a kilogram of grapes = ₹70
 Cost of 3 kg grapes = $₹70 \times 3 = ₹210$
 Ans. The cost of 3 kg grapes is ₹210.

2. Sonal can buy 6 stamps = ₹50
 She can buy 1 stamp = $₹50 \div 6$

Number of stamps with ₹100 = $₹100 \div ₹8.33$

$$= \frac{₹100}{₹8.33} = \frac{100 \times 100}{833 \times 100}$$

$$= \frac{10000}{833}$$

$$= 12$$

$$\begin{array}{r} 6 \overline{) 50.00} \\ \underline{48} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 2 \end{array}$$

$$\begin{array}{r} 833 \overline{) 10000} \\ \underline{833} \\ 1670 \\ \underline{1666} \\ 40 \end{array}$$

Ans. 12 stamps can be purchased for ₹100.

OR

① ₹50 is the cost of 6 stamps.

₹1 is the cost of $\frac{6}{50}$ stamps

₹100 is the cost of $= \frac{6}{50} \times 100 = 12$ stamps

Ans. 12 stamps can be purchased for ₹100.

Teacher's Signature

③ Cost of 4 mugs = ₹ 80
Cost of each mug = $₹ 80 \div 4 = ₹ 20$
Profit of each mug = ₹ 5
Selling Price of each mug = $₹ 20 + ₹ 5 = ₹ 25$
Ans. The required selling price of each mug is ₹ 25.

④ Cost of 7 packets of rubber bands = ₹ 105
Cost of each ^{packet of} rubber band = $₹ 105 \div 7 = ₹ 15$
Selling Price of each rubber bands packet = ₹ 10
AS CPY ₹ 15 > SP ₹ 10
So there is loss.
Amount of Loss = $CP - SP = ₹ 15 - ₹ 10 = ₹ 5$

Ans. There is Loss of ₹ 5.

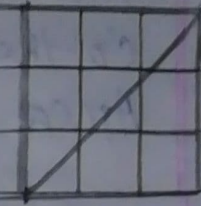
Enrichment Activities. (Area & Perimeter)

D Find the area of the following shaded figures, each small square is of side 1 cm.

1. Number of squares in the given square = 9

So the Area of the square = 9 sq cm

Given triangle is $\frac{1}{2}$ of the given square.



So Area of the shaded part = $\frac{1}{2} \times$ Area of the square

$$= \frac{1}{2} \times 9 \text{ sq cm}$$

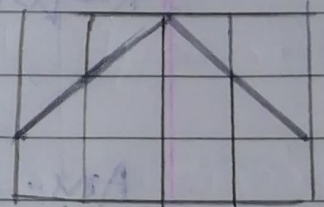
$$= \frac{9}{2} \text{ sq cm}$$

$$= 4.5 \text{ sq cm}$$

Ans. Required area of the shaded triangle is 4.5 sq cm.

2. Number of full squares in the given figure = 6

Area of full squares = 6 sq cm



Number of half squares in the shaded figure = 4

$$\text{Area of the half squares} = 4 \times \frac{1}{2} \text{ sq cm}$$

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

So the required area of shaded part of the figure = 6 sq cm + 2 sq cm = 8 sq cm

Ans. The area of shaded figure is 8 sq cm.

The given figure is divided into two parts, a square and a rectangle.

The square consists of 9 full squares

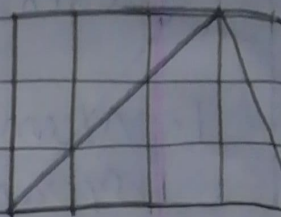
so the area of the square = 9 sq. cm

Area of the triangle = $\frac{1}{2}$ of the ^{area of} square

$$= \frac{1}{2} \times 9 \text{ sq. cm}$$

$$= \frac{9}{2} \text{ sq. cm}$$

$$= 4.5 \text{ sq. cm}$$



The rectangle consists of 3 small squares

Area of the rectangle = 3 sq. cm

so the shaded part = $\frac{1}{2}$ of the area of the rectangle

$$= \frac{1}{2} \times 3 \text{ sq. cm}$$

$$= 1.5 \text{ sq. cm}$$

Required area of the shaded figure

$$= 4.5 \text{ sq. cm} + 1.5 \text{ sq. cm}$$

$$= 6 \text{ sq. cm.}$$

Ans. The shaded figure is 6 sq. cm.