

Jender Heart High School, Sec.-33B chd.
class: VII

classmate

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Subject: Mathematics

Teacher: Dapli

Topic: Chapter-8: Unitary method

In this chapter, we will calculate the value of 1 thing (Unit) first, then find the value of required quantity.

Direct Variation

If one thing increase,
then other also increases.

e.g. → No. of pens and Cost
lts of petrol and distance

Indirect Variation

If one thing increases
then other decreases

e.g. no. of persons and time reqd.
Speed of car and time taken

Exercise - 8A

Soln 1: The weight of 12 bags = 174 kg

The weight of 1 bag = $\frac{174}{12}$ Kg

The weight of 20 bags = $\frac{174}{12} \times 20$ Kg

= 290 Kg

So, the weight of 20 bags is 290 kg

Soln 3: The cost of 16 m cloth = ₹ 2200

1 m cloth = ₹ $\frac{2200}{16}$

6 m cloth = ₹ $\frac{2200}{16} \times 6$

= ₹ 825

So, the cost of 6 m cloth is ₹ 825.

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Ques: Number of purses can be bought for ₹ 453 = 6
for ₹ 1 = $\frac{6}{453}$

$$\text{for ₹ 604} = \frac{6}{453} \times 604$$
$$\begin{array}{r} 26 \\ 453 \overline{) 1395} \\ \underline{906} \\ 489 \\ \underline{453} \\ 36 \end{array}$$

= 8

So, 8 purses can be bought for ₹ 604

Ques: The cost of 124 km distance = ₹ 1395
for 1 km = ₹ $\frac{1395}{124}$

$$\text{for 240 km} = \frac{1395}{124} \times 240$$
$$\begin{array}{r} 60 \\ 124 \overline{) 1395} \\ \underline{756} \\ 639 \\ \underline{620} \\ 19 \end{array}$$

= ₹ 2700

So, the cost of 240 km journey is ₹ 2700

Ques: Men required for 18 hours = 5 men
1 hour = $\frac{5}{18}$

$$10 \text{ hours} = \frac{5}{18} \times 180$$
$$\begin{array}{r} 5 \\ 18 \overline{) 180} \\ \underline{90} \\ 90 \\ \underline{90} \\ 0 \end{array}$$

= 9 men

So, 9 men are required to paint the wall.