

Mathematics

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(Chapter - 12) (Ratio and Proportion)
(Class - VI)

Exercise 12.3

Question 1:

If the cost of 7 m of cloth is ₹294, find the cost of 5 m of cloth.

Answer 1:

Cost of 7 m of cloth = ₹294

$$\therefore \text{Cost of 1 m of cloth} = \frac{294}{7} = ₹42$$

$$\therefore \text{Cost of 5 m of cloth} = 42 \times 5 = ₹210$$

Thus, the cost of 5 m of cloth is ₹210.

Question 2:

Ekta earns ₹1500 in 10 days. How much will she earn in 30 days?

Answer 2:

Earning of 10 days = ₹1500

$$\therefore \text{Earning of 1 day} = \frac{1500}{10} = ₹150$$

$$\therefore \text{Earning of 30 days} = 150 \times 30 = ₹4500$$

Thus, the earning of 30 days is ₹4,500.

Question 3:

If it has rained 276 mm in the last 3 days, how many cm of rain will fall in one full week (7 days)? Assume that the rain continues to fall at the same rate.

Answer 3:

Rain in 3 days = 276 mm

$$\therefore \text{Rain in 1 day} = \frac{276}{3} = 92 \text{ mm}$$

$$\therefore \text{Rain in 7 days} = 92 \times 7 = 644 \text{ mm}$$

Thus, the rain in 7 days is 644 mm.

Question 4:

Cost of 5 kg of wheat is ₹30.50.

(a) What will be the cost of 8 kg of wheat?

(b) What quantity of wheat can be purchased in ₹61?

Answer 4:

(a) Cost of 5 kg of wheat = ₹30.50

$$\therefore \text{Cost of 1 kg of wheat} = \frac{30.50}{5} = \frac{3050}{500} = ₹6.10$$

$$\therefore \text{Cost of 8 kg of wheat} = 6.10 \times 8 = ₹48.80$$

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(b) From ₹30.50, quantity of wheat can be purchased = 5 kg

$$\therefore \text{From ₹1, quantity of wheat can be purchased} = \frac{5}{30.50}$$

$$\therefore \text{From ₹61, quantity of wheat can be purchased} = \frac{5}{30.50} \times 61 = \frac{5}{\cancel{3050}} \times \cancel{6100} \\ = 10 \text{ kg}$$

Question 5:

The temperature dropped 15 degree Celsius in the last 30 days. If the rate of temperature drop remains the same, how many degrees will the temperature drop in the next ten days?

Answer 5:

Degree of temperature dropped in last 30 days = 15 degrees

$$\therefore \text{Degree of temperature dropped in last 30 days} = \frac{\cancel{15}}{\cancel{30}} = \frac{1}{2} \text{ degree}$$

$$\therefore \text{Degree of temperature dropped in last 10 days} = \frac{1}{2} \times \cancel{10} = 5 \text{ degree}$$

Thus, 5 degree Celsius temperature dropped in 10 days.

Question 6:

Shaina pays ₹7500 as rent for 3 months. How much does she has to pay for a whole year, if the rent per month remains same?

Answer 6:

Rent paid for 3 months = ₹7500

$$\therefore \text{Rent paid for 1 months} = \frac{\cancel{7500}}{\cancel{3}} = ₹2500$$

$$\therefore \text{Rent paid for 12 months} = 2500 \times 12 = ₹30,000$$

Thus, the total rent of one year is ₹30,000.

Question 7:

Cost of 4 dozens bananas is ₹60. How many bananas can be purchased for ₹12.50?

Answer 7:

Cost of 4 dozen bananas = ₹60

Cost of 48 bananas = ₹60

[4 dozen = 4 x 12 = 48]

\therefore From ₹60, number of bananas can be purchased = 48

$$\therefore \text{From ₹1, number of bananas can be purchased} = \frac{\cancel{48}}{\cancel{60}} = \frac{4}{5}$$

$$\therefore \text{From ₹12.50, number of bananas can be purchased} = \frac{4}{5} \times 12.50 = \frac{\cancel{4}}{\cancel{5}} \times \frac{\cancel{1250}}{\cancel{100}} = \frac{\cancel{250}}{\cancel{25}} \\ = 10 \text{ bananas}$$

Thus, 10 bananas can be purchased for ₹12.50.

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Question 8:

The weight of 72 books is 9 kg what is the weight of 40 such books?

Answer 8:

The weight of 72 books = 9 kg

$$\therefore \text{The weight of 1 book} = \frac{9}{72} = \frac{1}{8}$$

$$\therefore \text{The weight of 40 books} = \frac{1}{8} \times 40 = 5 \text{ kg}$$

Thus, the weight of 40 books is 5 kg.

Question 9:

A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by the truck to cover a distance of 1650 km?

Answer 9:

For covering 594 km, a truck will be required diesel = 108 litres

$$\therefore \text{For covering 1 km, a truck will be required diesel} = \frac{108}{594} = \frac{2}{11}$$

$$\therefore \text{For covering 1650 km, a truck will be required diesel} = \frac{2}{11} \times 1650 = 300 \text{ litres}$$

Thus, 300 litres diesel required by the truck to cover a distance of 1650 km.

Question 10:

Raju purchases 10 pens for ₹150 and Manish buys 7 pens for ₹84. Can you say who got the pen cheaper?

Answer 10:

Raju purchase 10 pens for = ₹150

$$\therefore \text{Raju purchases 1 pen for} = \frac{150}{10} = ₹15$$

Manish purchases 7 pens for = ₹84

$$\therefore \text{Manish purchases 1 pen for} = \frac{84}{7} = ₹12$$

Thus, Manish got the pens cheaper.

Question 11:

Anish made 42 runs in 6 overs and Anup made 63 runs in 7 overs. Who made more runs per over?

Answer 11:

Anish made in 6 overs = 42 runs

$$\therefore \text{Anish made in 1 overs} = \frac{42}{6} = 7 \text{ runs}$$

Anup made in 7 overs = 63 runs

$$\therefore \text{Anup made in 1 overs} = \frac{63}{7} = 9 \text{ runs}$$

Thus, Anup made more runs per over.