## EXERCISE 12.3

1. If the cost of 7 m of cloth is $₹ \mathbf{1 4 7 0}$, find the cost of 5 m of cloth.

## Solutions:

Given
Cost of 7 m cloth $=₹ 1470$
Cost of 1 m cloth $=1470 / 7$
$=₹ 210$
So, cost of 5 cloth $=210 \times 5=1050$
$\therefore$ The cost of 5 m cloth is ₹ 1050 .
2. Ekta earns ₹ $\mathbf{3 0 0 0}$ in $\mathbf{1 0}$ days. How much will she earn in $\mathbf{3 0}$ days?

Solutions:
Money earned by Ekta in 10 days $=₹ 3000$
Money earned by her in one day $=3000 / 10$
$=₹ 300$
So, money earned by her in 30 days $=300 \times 30$
$=₹ 9000$.
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.

## Solutions:

The measure of rain in 3 days $=276 \mathrm{~mm}$
The measure of rain in one day $=276 / 3$
$=92 \mathrm{~mm}$
So, the measure of rain in one week, i.e. 7 days $=92 \times 7$
$=644 \mathrm{~mm}$
$=644 / 10$
$=64.4 \mathrm{~cm}$
4. Cost of 5 kg of wheat is $₹ \mathbf{9 1 . 5 0}$.
(a) What will be the cost of 8 kg of wheat?
(b) What quantity of wheat can be purchased for ₹ 183 ?

## Solutions:

(a) Cost of 5 kg wheat $=₹ 91.50$.

Cost of 1 kg wheat $=91.50 / 5$
$=₹ 18.3$
So, the cost of 8 kg wheat $=18.3 \times 8$
$=₹ 146.40$
(b) Wheat purchased for ₹ $91.50=5 \mathrm{~kg}$

Wheat purchased for ₹ $1=5 / 91.50 \mathrm{~kg}$
So, wheat purchased for ₹ $183=(5 / 91.50) \times 183$
$=10 \mathrm{~kg}$
5. The temperature dropped $15^{\circ} \mathrm{C}$ 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?

## Solutions:

Temperature drop in 30 days $=15^{\circ} \mathrm{C}$
Temperature drop in 1 day $=15 / 30$
$=(1 / 2)^{0} \mathrm{C}$
So, the temperature drop in next 10 days $=(1 / 2) \times 10$
$=5^{0} \mathrm{C}$
$\therefore$ The temperature drop in the next 10 days will be $5^{\circ} \mathrm{C}$
6. Shaina pays ₹ 15000 as rent for 3 months. How much does she have to pay for a whole year if the rent per month remains the same?

## Solutions:

Rent paid by Shaina in 3 months $=₹ 15000$
Rent for 1 month $=15000 / 3$
$=₹ 5000$

So, rent for 12 months, i.e. 1 year $=5000 \times 12$
$=₹ 60,000$
$\therefore$ Rent paid by Shaina in 1 year is ₹ 60,000
7. Cost of $\mathbf{4}$ dozen bananas is ₹ $\mathbf{1 8 0}$. How many bananas can be purchased for ₹ $\mathbf{9 0}$ ?

## Solutions:

Number of bananas bought for $₹ 180=4$ dozens
$=4 \times 12$
$=48$ bananas
Number of bananas bought for ₹ $1=48 / 180$
So, number of bananas bought for ₹ $90=(48 / 180) \times 90$
$=24$ bananas
$\therefore 24$ bananas can be purchased for ₹ 90
8. The weight of 72 books is 9 kg . What is the weight of 40 such books?

Solutions:
Weight of 72 books $=9 \mathrm{~kg}$
Weight of 1 book $=9 / 72$
$=1 / 8 \mathrm{~kg}$
So, weight of 40 books $=(1 / 8) \times 40$
$=5 \mathrm{~kg}$
$\therefore$ The weight of 40 books is 5 kg .
9. A truck requires 108 litres of diesel to cover a distance of 594 km . How much diesel will be required by the truck to cover a distance of 1650 km?

## Solutions:

Diesel required for $594 \mathrm{~km}=108$ litres
Diesel required for $1 \mathrm{~km}=108 / 594$
= 2 / 11 litre
So, diesel required for $1650 \mathrm{~km}=(2 / 11) \times 1650$
$=300$ litres
$\therefore$ The diesel required by the truck to cover a distance of 1650 km is 300 litres.
10. Raju purchases 10 pens for ₹ 150 , and Manish buys 7 pens for ₹ 84 . Can you say who got the pens cheaper?

Solutions:
Pens purchased by Raju for ₹ $150=10$ pens
Cost of 1 pen $=150 / 10$
= ₹ 15
Pens purchased by Manish for ₹ $84=7$ pens
Cost of 1 pen $=84 / 7$
$=$ ₹ 12
$\therefore$ Pens purchased by Manish are cheaper than those of Raju.
11. Anish made 42 runs in 6 overs, and Anup made 63 runs in 7 overs. Who made more runs per over?

Solutions:
Runs made by Anish in 6 overs $=42$
Runs made by Anish in 1 over $=42 / 6$
$=7$
Runs made by Anup in 7 overs $=63$
Runs made by Anup in 1 over $=63 / 7$
$=9$
$\therefore$ Anup scored more runs than Anish.

