

Class 5 Maths**Unitary Method - Word Problems****Solve the following:**

1. John's heart beats 72 times in one minute, how many times does it beat in one hour? Also find how many times does it beat in one day.
2. A pack of 120 soaps is ₹ 540. Find the cost of 12 soaps.
3. Steffie drinks 8 glasses of water every day.
 - a. How many glasses will she drink every month?
 - b. How many glasses will she drink every year?
4. Manju is a special cook who comes only on party days. Last year she was called for only 24 days. For each day she was paid ₹ 780.
 - a. Find out how much money she will get in all.
 - b. Find out how much she will get, if she is called for all days of the year.
5. Naina works in a farm. She gets ₹750 for one day's work. If Naina works for 49 days, how much money does she get?
6. There are 28 gulab jamuns in 1 Kg.
 - a. How many gulab jamuns will be there in 12 Kg?
 - b. If 16 gulab jamuns can be packed in a box, how many boxes are needed to pack all these gulab jamuns.
7. With a speed of 30 km/h, it takes 2 hours to cover a certain distance. What should be the speed, if the same journey is to be completed in 3 hours?
8. The cost of 3 dozen eggs is Rs. 90 then what is the cost of 3 scores of eggs?
[1 score = 20]
9. A family consumes 900gms of sugar in 15 days. How much sugar will be consumed in a month? [1 month = 30 days] (give the answer in Kg)
10. A cyclist covers a distance of 45 km in 3 hours. Calculate the speed of the cyclist.

Detailed Solutions

1. Heartbeats

Heartbeats in **1 minute** = **72**

Heartbeats in **1 hour** = **60 minutes**

Heartbeats in 1 hour

$$= 72 \times 60 = \mathbf{4,320 \text{ times}}$$

Heartbeats in **1 day** = **24 hours**

Heartbeats in 1 day

$$= 4,320 \times 24 = \mathbf{1,03,680 \text{ times}}$$

2. Cost of Soaps

Cost of **120 soaps** = **₹540**

Cost of **1 soap**

$$= 540 \div 120 = \mathbf{₹4.5}$$

Cost of **12 soaps**

$$= 4.5 \times 12 = \mathbf{₹54}$$

3. Water Consumption

Glasses per day = **8**

a) In one month (30 days)

$$= 8 \times 30 = \mathbf{240 \text{ glasses}}$$

b) In one year (365 days)

$$= 8 \times 365 = \mathbf{2,920 \text{ glasses}}$$

4. Manju's Earnings

Payment per day = ₹780

a) For 24 days

$$= 780 \times 24 = \text{₹}18,720$$

b) If called for 365 days

$$= 780 \times 365 = \text{₹}2,84,700$$

5. Naina's Earnings

Earning per day = ₹750

For 49 days

$$= 750 \times 49 = \text{₹}36,750$$

6. Gulab Jamuns**a) Gulab jamuns in 12 kg**

1 kg = 28 gulab jamuns

12 kg

$$= 28 \times 12 = \text{336 gulab jamuns}$$

b) Boxes needed

Each box holds 16 gulab jamuns

Number of boxes

$$= 336 \div 16 = \text{21 boxes}$$

7. Speed of Journey

$$\text{Speed} = 30 \text{ km/h}$$

$$\text{Time} = 2 \text{ hours}$$

Distance covered

$$= \text{Speed} \times \text{Time}$$

$$= 30 \times 2 = 60 \text{ km}$$

To cover **60 km in 3 hours**

Speed needed

$$= 60 \div 3 = 20 \text{ km/h}$$

8. Cost of Eggs

$$3 \text{ dozen eggs} = 36 \text{ eggs}$$

$$\text{Cost of } 36 \text{ eggs} = ₹90$$

Cost of **1 egg**

$$= 90 \div 36 = ₹2.5$$

$$3 \text{ scores} = 60 \text{ eggs}$$

Cost of **60 eggs**

$$= 60 \times 2.5 = ₹150$$

9. Sugar Consumption

$$\text{Sugar in } 15 \text{ days} = 900 \text{ g}$$

Sugar in **1 day**

$$= 900 \div 15 = 60 \text{ g}$$

Sugar in **30 days**

$$= 60 \times 30 = \mathbf{1,800 \text{ g}}$$

Convert to kilograms:

$$1,800 \text{ g} = \mathbf{1.8 \text{ kg}}$$

10. Speed of Cyclist

Distance = **45 km**

Time = **3 hours**

Speed

$$= \text{Distance} \div \text{Time}$$

$$= 45 \div 3 = \mathbf{15 \text{ km/h}}$$

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