Unitary Method

Assignment

Part A

4a) If the cost of 25 books is Rs. 5000, what is the cost of 7 such books?

⇒ Soln,

Here,

Books	Cost
25	Rs. 5000
7	?

We have,

25 books cost Rs. 5000

or, 1 book cost Rs. $\frac{5000}{25}$

∴ 7 books cost Rs. $\frac{5000}{25} \times 7$

= Rs. 1400

∴ The cost of 7 books is Rs. 1400.

b) What is the cost of 9 kgs of sugar if a

quintal of sugar costs Rs. 10,500?

→ Sol^n,

Here,

Sugar (kg)	Cost
1q. = 100kg.	Rs. 10,500
9 kg	?

We have,

100 kg. costs Rs. 10,500

or, 1 kg costs $\dfrac{Rs. 10,500}{100}$

∴ 9 kg. costs $\dfrac{Rs. 10,500}{100} \times 9 = Rs. 945$

∴ The cost of 9kg sugar is Rs. 945.

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e) If 3 dozens of bananas cost Rs. 195, how much do 18 bananas cost?

→ Sol^n,

Here,

Bananas	Cost
3 dozens = 12×3 = 36	Rs. 195
18	?

Now,

$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$

36 bananas cost Rs. 195.

1 banana cost $\dfrac{Rs. 195}{36}$

∴ 18 bananas cost $\dfrac{Rs. 195}{36} \times 18$

$= Rs. 97.5$

∴ The cost of 18 bananas is Rs. 97.5.

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d) What is the cost of 12 bags if 5 bags cost Rs. 6000?

→ Sol^n

Here,

Bags	Cost
5 bags	Rs. 6000
12 bags	?

We have,

5 bags cost Rs. 6000

1 bag cost $\dfrac{Rs. 6000}{5}$

∴ 12 bags cost $= \dfrac{Rs. 6000}{5} \times 12 = Rs. 14,400.$

∴ The cost of 12 bags is Rs. 14400.

5 a) By selling 45 packets of biscuits Ramita makes a profit of Rs. 90. How much would she gain by selling 360 such packets?

→ Soln

Here,

By selling 45 packets, Ramita made a profit of Rs. 90.

By selling 1 packet, Ramita made a profit of $\frac{90}{45}$

∴ By selling 360 packets, Ramita makes a profit of : $\frac{90}{45} \times 360 = Rs. 720$

∴ Ramita would gain Rs. 720 by selling 360 packets.

5 b) A shopkeeper earned a profit of Rs. 2500 by selling 20 t-shirts. How much profit would the shopkeeper make by selling 27 t-shirts?

-) **Sol^n**

Here,

- By selling 20 T-Shirt, a shopkeeper earned Rs. 2500.

- By selling 1 T-shirt, a shopkeeper earned $= \dfrac{Rs. 2500}{20}$

∴ # By selling 27 T-shirt, a shopkeeper earned $= \dfrac{Rs\ 2500}{20} \times 27 = Rs. 3375$

∴ The shopkeeper would make Rs. 3375 profit by selling 27 t-shirts.