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8 - Unitary Method

Unitary method is the technique using unit(1) to solve the problems.

Exercise - 8

1. What will be the price of 8 pens if the price of 5 pens is ₹125?

Solⁿ Price of 5 pens = ₹125
price of 1 pen = ₹125 ÷ 5 = ₹25

$$\begin{array}{r} 5 \overline{) 125} \quad (25 \\ \underline{10} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

$$\text{Price of 8 pens} = \frac{₹25 \times 8}{₹200}$$

2. Rajat bought 3 packets for ₹24. How much money is required to buy 7 such packets?

Solⁿ Price of 3 packets = ₹24

$$\text{Price of 1 packet} = ₹24 \div 3 = ₹8$$

$$\text{Price of 7 packets} = 8 \times 7 = ₹56$$

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Saathi

- ③ A worker earns ₹ 852 in 4 days. How much does ^{he} earn in 7 days?

Solⁿ In 4 days = ₹ 852
 In 1 day = ₹ 852 ÷ 4

$$= 4 \overline{)852} \begin{array}{r} 213 \\ \underline{8} \\ 5 \\ \underline{4} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

In 7 days = ₹ 213 × 7
 ₹ 1491

- ④ The price of 5 kg potatoes is ₹ 65. Find the cost of 12 kg potatoes.

Solⁿ Price for 5 kg potatoes = ₹ 65
 Price for 1 kg = ₹ 65 ÷ 5 = ₹ 13

$$5 \overline{)65} \begin{array}{r} 13 \\ \underline{5} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

Cost of 12 kg potatoes = ₹ 13 × 12
 = ₹ 156

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- ⑤ 4 breads cost ₹ 88. Find the cost of 7 such breads.

Solⁿ 4 breads cost = ₹ 88
 Cost of 1 bread = ₹ 88 ÷ 4 = ₹ 22

$$\begin{array}{r} 4 \overline{) 88} 22 \\ \underline{8} \\ 08 \\ \underline{8} \\ 0 \end{array}$$

Cost of 7 breads = ₹ 22 × 7
 = ₹ 154

6. A train covers 272 km in 4 hours. What distance will it cover in 7 hours?

Solⁿ Distance covered in 4 hours = 272 km
 Distance covered in 1 hour = 272 ÷ 4

$$\begin{array}{r} 4 \overline{) 272} 68 \\ \underline{24} \\ 32 \\ \underline{32} \\ 0 \end{array}$$

= 68 km.

Distance covered in 7 hrs = 6.8×7
= 47.6 km

- ⑦ A bus covers 72 km on 6 litres of petrol. How many kilometres can it cover on 16 litres of petrol.

Sol: Distance covered on 6 litres = 72 km
Distance covered on 1 litre = $72 \div 6$
= 12 km.

Distance covered on 16 litres of petrol
= 12×16
= 192 km.

- ⑧ 12 kg of rice costs ₹5400. Find the cost of 23 kg rice.

Sol: Cost of 12 kg of rice = ₹5400
Cost of 1 kg of rice = $₹5400 \div 12$
= $12 \overline{) 5400} (450$
 $\underline{48}$
60
 $\underline{60}$
0
= ₹450

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(Chapter)

$$\text{Cost of 23 kg rice} = ₹450 \times 23$$

$$= ₹10,350$$

9. The price of 6 cakes is ₹960. Find the price of 34 such cakes.

Solⁿ Price of 6 cakes = ₹960

Price of 1 cake = ₹960 ÷ 6

$$= 6 \overline{) 960} (160$$

$$\begin{array}{r} 6 \downarrow \\ 36 \\ 36 \\ \hline 0 \end{array}$$

$$= ₹160.$$

$$\text{Price of 34 such cakes} = ₹160 \times 34$$

$$= ₹5440.$$

10. A factory produces 34300 locks in 7 days. How many locks will it produce in 14 days?

Solⁿ locks produced in 7 days = 34300

lock produced in 1 day = 34300 ÷ 7

$$7 \overline{) 34300} (4900$$

$$\begin{array}{r} 28 \downarrow \\ 63 \\ 63 \\ \hline \end{array}$$

$$= 4900$$

(Santali)

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Loose produced in 14 days = 4900×14
= 68,600