Chapter 10 Unitary Method

Exercise -10.1 Unitary Method. Solution 1:-Given that, cost of 20 chocolates = Rs320. : cost of one chocolate = 320 = RS.16. Hence, cost of 35 chocolates = RS $\left(\frac{320}{20} \times 35\right)$ Solution-2:we have, cost of 40 meters of cloth = RS200 (200) cost of one meter cloth = 200 = RS 5. .. Hence, cost of so meters of cloth = 200 x50

= RS.250,

Solution-03:- '

It is given that.

with 36 litres of petrol the car goes 522km.

... With I Litre of petrol the car goes 522km.

Hence, with 14 Litres of petrol it would go

$$\left(\frac{522}{36} \times 14\right) \text{ Km} = \frac{522}{18} \times 7 = 29 \times 7 \text{ km}$$

= 203 km.

solution - 04 :-

It is given that,

Travelling 900km by rail costs Rs. 280

: Fare for the Sourney of 360km = 280 x360
900

$$=\frac{1120}{10}$$

= RS·112,

Solution-os:

It is given that.

6 oil tankers can be filled by a pipe in 4/2 hours,

: 4 oil tankers can be filled by a pipe = $\frac{9}{6}$ x y = $\frac{36}{12}$ = 3 hours

Solution - 06:

3 of salary per month is Rs 600 = 0.75 of salary per month is 600

3 of salary per month = 600.

salary per day =
$$\frac{600}{30} = 20$$

salary per month =
$$\frac{600 \times 4}{3}$$
 [$\frac{3}{4}$ salary=60] = RS. 800.

Solution -07:-

The cost of 32 tables = Rs 23520.

cost of one table=
$$23520$$

= 1470
= 8735

:. 70 such tables can be purchased by Rs, 51450.

The yield of wheat from 6 hectares = 2 80 quintals.

Yield of wheat from one hectare = 280

= 140

The yield of wheat from x hectary = 225 quintals

= 3×225

= 4-8214.

solution-09:-

Fifteen postcards cost = RS 2.25.

cost of postcard cost = RS 2.25

= 0.485

=RS.0 . 15

cost of 36 post cards = 26x0.15 = RS 5.40.

* cost * RS. 45 for 2 cards.

x = 45 0.15

= 300 Post cards.

solution-10:

Rail journey of 75km costs RS 215.

solution_11:

It is given that,

sales tax on a purchase worth Rs 60 is Rs 420.

Sales tax on a purchase worth Rs 2 = 4.20

60

= 0.07.

sales tax on a Purchase worth RS 150 = 0.07x150 = RS 10.50

Solution -12:

It is given that,

52 packets of 12 Pencils each cost = RS 499.20.

Packet cost =
$$\frac{499.20}{52} = 9.6$$

Pencil cost = $\frac{9.6}{12} = 0.8$

65 Packets of 10 Pencils each = 65×10 Pencils=650P costof 65 Packets = RS.520.