Tuesday

Classwork
Ch-3
Ex-3.3

Q4 The product of two numbers is 253.134. If one of the numbers is 12.6, find the other number.

Ans Let the other number be 'a'.
Now, according to question
$12.6 \times a = 253.134$ ——— (1)
To solve for 'a', divide 12.6 both sides of (1)
We get, $\frac{12.6 \times a}{12.6} = \frac{253.134}{12.6}$
This gives, $a = 253.134 \div 12.6$

Now, to find value of 'a' solve $253.134 \div 12.6$

$$\frac{253.134}{12.6} = \frac{253.134 \times 10}{12.6 \times 10} = \frac{2531.34}{126}$$

New divisor is 126 and dividend is 2531.34

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So,

$$\begin{array}{r} 126\overline{)2531.34}\,(20.09 \\ -252\downarrow\downarrow\downarrow \\ \hline 01134 \\ -1134 \\ \hline 0000 \end{array}$$

Therefore, $253.134 \div 12.6 = 20.09$

30/4/20
Thursday

Classwork
Ch-3
Ex-3.4

Q1 Fill in the blanks.

a) 1 m = 1000 mm
b) 1 dam = 1000 cm
c) 1 kg = 1000000 mg
d) 1 dl = 100 ml
e) 1 hg = 100000 mg
f) 1 l = 100 cl

Q2 Convert the following units as directed.

(a) 20.90 km into cm

ans 1 km = 100000 cm
20.90 km = 20.90 × 100000 cm
= 2090000 cm

(b) 60 ml into kl

= 2090000 cm

(b) 60 ml into kl

ans 1 ml = 0.000001 kl
60 ml = 60 × 0.000001 kl
= 0.00006 kl

(c) 45.76 dg into dag

ans 1 dg = 0.01 dag
45.76 dg = 45.76 ÷ 100 dag
= 0.4576 dag

(d) 120.333 g into kg

ans 1 g = 0.0001 kg
120.333 g = 120.333 ÷ 1000 kg
= 0.120333 kg

y) 28.7 kg = _____ kg + _____ g

ans 28.7 kg = 28 kg + 700g

(1 kg = 1000g ; 28.7g = 28.700g = 2 kg + 700g

1/5/20
Friday

Classwork
Ch-3
Ex-3.5

Q1 Ruchi covers 3 km in 45 min. How much distance in metres does she cover in 94.8 minutes?

Ans = Distance covered by Ruchi in 45 min -> 3 km
Distance covered by Ruchi in 1 min -> (3÷45) km
Distance covered by Ruchi in 94.8 min = [(3÷45) × 94.8] km
= 6.32 km

6.32 km = 6.32 × 1000 metre
= 6320 metre

Q2 A bottle contains 500 ml of water and the water fills of the bottle. How many litres of water does the bottle contain?

Q12 (1/2) half of Bottle contain = 500 ml
(1) full of Bottle contain = 500 × 1/2 ml
= 500 × 2 ml
= 1000 ml

So, 1000 ml = 1L
answer = 1L

Q13 A man buys 13.23 kg of one type of rice for ₹30 per kg and 15.45 kg of another type of rice for ₹67.99 per kg. If he mixes them and make packets each containing 3.450 g of rice, how many such packets of rice are there and what is the cost of each packet?

Ans Cost of 13.23 kg of rice = ₹30 × 13.23
= ₹396.9

Cost of 15.45 kg of rice = ₹67.99 × 15.45
= ₹1050.4455

Total quantity of wheat = (13.23 + 15.45) kg
= 28.68 kg = 28680 g

ans Cost of 13.23 kg of rice = ₹30 × 13.23
= ₹3969

Cost of 15.45 kg of rice = ₹67.99 × 15.45
= ₹1050.4455

Total quantity of wheat = (13.23 + 15.45) kg
= 28.68 kg = 28680 g

Number of packets = $\frac{28680\text{ g}}{3450\text{ g}}$ = 8.31

Total cost of rice = ₹(396.9 + 1050.4455)
= ₹1447.3455

Cost of one packet = $\frac{1447.3455}{8.31}$ = ₹174.20

Q4 A shopkeeper bought a TV set for ₹34500.78 and sold it at a profit of ₹4365.87. What was the selling price of one TV set? Find the selling price of 34 such TV sets.

ans Cost price of one TV set = ₹ 34,500.78
Profit earned = ₹ 4,365.87
Selling Price = Cost Price + Profit
Selling Price of one TV set = ₹ (34,500.78 + 4,365.87)
= ₹ 38,866.65
Selling Price of 34 TV sets = ₹ 38,866.65 × 34
(ans) = ₹ 13,21,466.10

Q5 Four friends Raj, Riya, Jaya and Prem went to a restaurant for dinner. The bill for dinner was ₹ 3456.90. Raj, Riya and Jaya paid ₹ 450.89, ₹ 239.89 and ₹ 450.00, respectively, for the bill. How much money was Prem supposed to pay?

ans Let the amount paid by prem be ₹ 'x'

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Amount paid by (Raj + Riya + Jaya + Prem) = Total Bill

↓

= ₹ (450.89 + 239.89 + 450.00 + x)

= ₹ 3456.90

1,140.78 + x = ₹ 3,456.90

So, x = ₹ 3,456.90 − ₹ 1,140.78

x = ₹ 2,316.12

Hence, Prem is supposed to pay ₹ 2,316.12

Q6 Rahul has to cover 3km in a cycle race. circumference of the tyre of the cycle is 2m. How many turns of the tyre are needed to cover the distance left?

ans Total distance be covered in m = 3 × 1000 m
= 3000 m

Distance covered in m = 2 × 1000 m
= 2000 m

Remaining distance to be covered =
= (3000 − 2000) m
= 1000 m (ans)

Number of turns of tyre required
= 1000 ÷ 2
= 500

Thus, the tyres would take 500 more turns to complete the distance.

Q7 Rohan participated in a race. He needed to cover the distance of 560 m in the race. In each step, he covered 0.5 m. After covering 347 m he fell. How many steps were left to complete

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ans Total distance Rohan needed to cover = 560m
Number of steps he took in 0.5m distance = 1m
Number of steps he took in 1m distance $\frac{1}{0.5} = \frac{10}{5}$

Distance left to cover = 560m - 347m
= 213m

Steps left to complete the race = 213 x 2
= 426 steps

Q8 The manufacturing cost of a pair of shoes is ₹346.72. How much will it cost for 15 such pairs of shoes.

ans Manufacturing cost of one pair of shoes = ₹346.72
Manufacturing cost of 15 pair of shoes = ₹346.72 x 15
= ₹5,200.8