

EXERCISE 7.9

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1. Subtract:

$$\begin{array}{r} \text{(i)} \quad 46.23 \\ \quad 37.5 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(ii)} \quad 128.4 \\ \quad 53.05 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(iii)} \quad 45.03 \\ \quad 27.8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(iv)} \quad 23.93 \\ \quad 5.946 \\ \hline \end{array}$$

Solution:

(i) We know that
 $46.23 - 37.5 = 8.73$

(ii) We know that
 $128.4 - 53.05 = 75.35$

(iii) We know that
 $45.03 - 27.8 = 17.23$

(iv) We know that
 $23.93 - 5.946 = 17.984$

2. Find the value of:

(i) $9.756 - 6.28$

(ii) $21.05 - 15.27$

(iii) $18.5 - 6.79$

(iv) $48.1 - 0.37$

(v) $108.032 - 86.8$

(vi) $91.001 - 72.9$

(vii) $32.7 - 25.86$

(viii) $100 - 26.32$

Solution:

(i) $9.756 - 6.28$
We know that
 $9.756 - 6.280 = 3.476$

(ii) $21.05 - 15.27$
We know that
 $21.05 - 15.27 = 5.78$

(iii) $18.5 - 6.79$
We know that
 $18.50 - 6.79 = 11.71$

(iv) $48.1 - 0.37$
We know that
 $48.10 - 0.37 = 47.73$

(v) $108.032 - 86.8$
We know that

$$108.032 - 86.800 = 21.232$$

(vi) $91.001 - 72.9$

We know that

$$91.001 - 72.900 = 18.101$$

(vii) $32.7 - 25.86$

We know that

$$32.70 - 25.86 = 6.84$$

(viii) $100 - 26.32$

We know that

$$100 - 26.32 = 73.68$$

3. The sum of two numbers is 100. If one of them is 78.01, find the other.

Solution:

One of the number = 78.01

Sum of two numbers = 100

Consider x as the other number

It can be written as

$$78.01 + x = 100$$

On further calculation

$$x = 100 - 78.01$$

By subtraction

$$x = 21.99$$

Hence, the other number is 21.99.

4. Waheeda's school is at a distance of 5 km 350 m from her house. She travels 1 km 70 m on foot and the rest she travels by bus. How much distance does she travel by bus?

Solution:

Distance of school from house = 5 km 350 m = 5.350 km

Distance travelled on foot = 1 km 70 m = 1.070 km

Consider x km as the distance travelled by bus

It can be written as

$$1.070 + x = 5.350$$

On further calculation

$$x = 5.350 - 1.070$$

So we get

$$x = 4.280 \text{ km}$$

Hence, the distance travelled by bus is 4.280 km.

5. Raju bought a book for Rs 35.65. He gave Rs 50 to the shopkeeper. How much money did he get back from the shopkeeper?

Solution:

Cost of book = Rs 35.65

Amount given = Rs 50

So the balance returned = $50 - 35.65 = \text{Rs } 14.35$

Hence, the balance returned by the shopkeeper is Rs 14.35.

6. Ruby bought a watermelon weighing 5 kg 200 g. Out of this she gave 2 kg 750 g to her neighbour. What is the weight of the watermelon left with Ruby?

Solution:

Weight of watermelon bought by Ruby = 5 kg 200 g = 5.200 kg

Weight of watermelon Ruby gave to neighbour = 2 kg 750 g = 2.750 kg

So the weight of watermelon left with Ruby = Weight of watermelon bought by Ruby – Weight of watermelon Ruby gave to neighbour

We get

Weight of watermelon left with Ruby = $5.200 - 2.750 = 2.450$ kg

Hence, the weight of watermelon left with Ruby is 2.450 kg.

7. Victor drove 89.050 km on Saturday and 73.9 km on Sunday. How many kilometres more did he drive on Sunday?

Solution:

Distance travelled by Victor on Saturday = 89.050 km

Distance travelled by Victor on Sunday = 73.9 km

So the distance travelled more by Victor on Saturday = $89.050 - 73.9 = 15.15$ km

Hence, Victor drove 15.15 km more on Saturday.

8. Raju bought a book for Rs 35.65. He gave Rs 50 to the shopkeeper. How much money did he get back from the shopkeeper?

Solution:

Cost of the book = Rs 35.65

Amount given = Rs 50

So the balance returned = $50 - 35.65 = \text{Rs } 14.35$

Hence, the shopkeeper returned back Rs 14.35.

9. Gopal travelled 125.5 km by bus, 14.25 km by pony and the rest of distance to Kedarnath on foot. If he covered a total distance of 15 km, how much did he travel on foot?

Solution:

Distance travelled by Gopal by bus = 125.5 km

Distance travelled by Gopal by pony = 14.25 km

Consider x km as the distance travelled on foot

We know that

Total distance = Distance travelled by Gopal by bus + Distance travelled by Gopal by pony + Distance travelled by Gopal on foot

By substituting the values

$150 = 125.5 + 14.25 + x$

On further calculation
 $x = 150 - 125.5 - 14.25$
We get
 $x = 10.25$ km

Hence, the distance travelled by Gopal on foot is 10.25 km.

10. Tina had 20 m 5 cm long cloth. She cuts 4 m 50 cm length of cloth from this for making a curtain. How much cloth is left with her?

Solution:

Length of cloth Tina had = 20 m 5 cm = 20.05 m
Length of cloth cut to make curtain = 4m 50 cm = 4.50 m
So the length of cloth left with her = Length of cloth Tina had - Length of cloth cut to make curtain
By substituting values
The length of cloth left with her = $20.05 - 4.50 = 15.55$ m

Hence, the length of cloth left with Tina is 15.55 m.

11. Vineeta bought a book for Rs 18.90, a pen for Rs 8.50 and some papers for Rs 5.05. She gave fifty rupee to the shopkeeper. How much balance did she get back?

Solution:

Cost of book = Rs 18.90
Cost of pen = Rs 8.50
Cost of papers = Rs 5.05
So the total cost = $18.90 + 8.50 + 5.05 = \text{Rs } 32.45$
Amount given to the shopkeeper = Rs 50
So the balance returned back = $50 - 32.45 = \text{Rs } 17.55$

Hence, the shopkeeper returned back Rs 17.55.

12. Tanuj walked 8.62 km on Monday, 7.05 km on Tuesday and some distance on Wednesday. If he walked 21.01 km in three days, how much distance did he walk on Wednesday?

Solution:

Distance walked by Tanuj on Monday = 8.62 km
Distance walked by Tanuj on Tuesday = 7.05 km
Consider x km as the distance walked by Tanuj on Wednesday
It can be written as
Total distance = Distance walked by Tanuj on Monday + Distance walked by Tanuj on Tuesday + Distance walked by Tanuj on Wednesday
By substituting the values
 $21.01 = 8.62 + 7.05 + x$
On further calculation
 $x = 21.01 - 8.62 - 7.05$
So we get
 $x = 5.34$ km

Hence, the distance walked by Tanuj on Wednesday is 5.34 km.