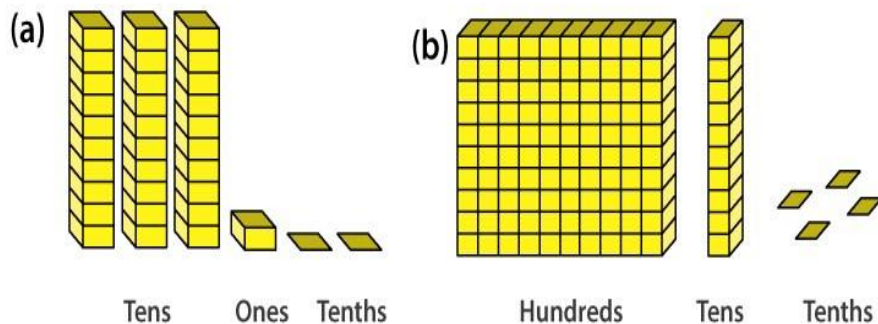


EXERCISE 8.1

1. Write the following numbers in the given table.



Hundreds	Tens	Ones	Tenths
(100)	(10)	(1)	(1 / 10)

Solutions:

Rows	Hundreds	Tens	Ones	Tenths
a	0	3	1	2
b	1	1	0	4

2. Write the following decimals in the place value table.

(a) 19.4

(b) 0.3

(c) 10.6 (d) 205.9 Solutions:

	Hundreds	Tens	Ones	Tenths
19.4	0	1	9	4
0.3	0	0	0	3
10.6	0	1	0	6
205.9	2	0	5	9

3. Write each of the following as decimals:

(a) Seven-tenths

(b) Two tens and nine-tenths

(c) Fourteen point six

(d) One hundred and two ones

(e) Six hundred point eight

Solutions:

- (a) The decimal form of Seven-tenths is $7 / 10 = 0.7$
 (b) The decimal form of two tens and nine tenths is $20 + 9 / 10 = 20.9$
 (c) The decimal form of fourteen point six is 14.6
 (d) The decimal form of one hundred and two ones is $100 + 2 = 102.0$
 (e) The decimal form of six hundred point eight is 600.8

4. Write each of the following as decimals:

- (a) $5 / 10$
 (b) $3 + 7 / 10$
 (c) $200 + 60 + 5 + 1 / 10$
 (d) $70 + 8 / 10$ (e) $88 / 10$
 (f) $4\frac{2}{10}$
 (g) $3 / 2$
 (h) $2 / 5$
 (i) $12 / 5$
 (j) $3\frac{3}{5}$
 (k) $4\frac{1}{2}$

Solutions:

- (a) $5 / 10 = 0.5$
 (b) $3 + 7 / 10 = 3 + 0.7$
 $= 3.7$
 (c) $200 + 60 + 5 + 1 / 10 = 265 + 0.1$
 $= 265.1$
 (d) $70 + 8 / 10 = 70 + 0.8$
 $= 70.8$
 (e) $88 / 10 = 80 / 10 + 8 / 10$
 $= 8 + 0.8$
 $= 8.8$
 (f) $4\frac{2}{10} = 4 + \frac{2}{10}$
 $= 4 + 0.2$
 $= 4.2$
 (g) $3 / 2 = (2 + 1) / 2$
 $= 2 / 2 + 1 / 2$
 $= 1 + 0.5$
 $= 1.5$

$$\begin{aligned} \text{(h)} \quad 2/5 &= 0.4 \\ \text{(i)} \quad 12/5 &= (10 + 2)/5 \\ &= 10/5 + 2/5 \\ &= 2 + 0.4 \\ &= 2.4 \end{aligned}$$

$$\begin{aligned} \text{(j)} \quad 3\frac{3}{5} &= 3 + \frac{3}{5} \\ &= 3 + 0.6 \\ &= 3.6 \end{aligned}$$

$$\begin{aligned} \text{(k)} \quad 4\frac{1}{2} &= 4 + \frac{1}{2} \\ &= 4 + 0.5 \\ &= 4.5 \end{aligned}$$

5. Write the following decimals as fractions. Reduce the fraction to lowest form.

- (a) 0.6
- (b) 2.5
- (c) 1.0
- (d) 3.8
- (e) 13.7
- (f) 21.2
- (g) 6.4

Solutions:

- (a) $0.6 = 6/10$
 $= 3/5$
- (b) $2.5 = 25/10$
 $= 5/2$
- (c) $1.0 = 1$
 $= 1$
- (d) $3.8 = 38/10$
 $= 19/5$
- (e) $13.7 = 137/10$
- (f) $21.2 = 212/10$
 $= 106/5$
- (g) $6.4 = 64/10$
 $= 32/5$

6. Express the following as cm using decimals.

- (a) 2 mm
- (b) 30 mm

- (c) 116 mm
 (d) 4 cm 2 mm
 (e) 162 mm
 (f) 83 mm

Solutions:

We know that

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ mm} = 1 / 10 \text{ cm}$$

- (a) $2 \text{ mm} = 2 / 10 \text{ cm}$
 $= 0.2 \text{ cm}$
 (b) $30 \text{ mm} = 30 / 10 \text{ cm}$
 $= 3.0 \text{ cm}$
 (c) $116 \text{ mm} = 116 / 10 \text{ cm}$
 $= 11.6 \text{ cm}$
 (d) $4 \text{ cm } 2 \text{ mm} = [(4 + 2 / 10)] \text{ cm}$
 $= 4.2 \text{ cm}$
 (e) $162 \text{ mm} = 162 / 10 \text{ cm}$
 $= 16.2 \text{ cm}$
 (f) $83 \text{ mm} = 83 / 10 \text{ cm}$
 $= 8.3 \text{ cm}$

7. Between which two whole numbers on the number line are the given numbers lie? Which of these whole numbers is nearer the number?



- (a) 0.8
 (b) 5.1
 (c) 2.6
 (d) 6.4
 (e) 9.1
 (f) 4.9

Solutions:

- (a) 0.8 lies between 0 and 1
 0.8 is nearer to 1
 (b) 5.1 lies between 5 and 6
 5.1 is nearer to 5
 (c) 2.6 lies between 2 and 3
 2.6 is nearer to 3
 (d) 6.4 lies between 6 and 7
 6.4 is nearer to 6

(e) 9.1 lies between 9 and 10

9.1 is nearer to 9

(f) 4.9 lies between 4 and 5

4.9 is nearer to 5

8. Show the following numbers on the number line.

(a) 0.2

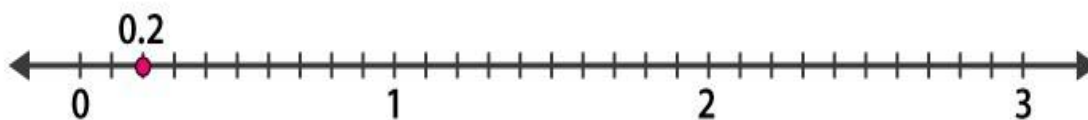
(b) 1.9

(c) 1.1

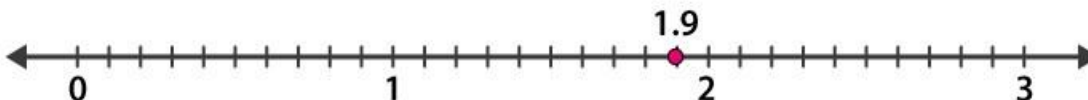
(d) 2.5

Solutions:

(a) 0.2 lies between the points 0 and 1 on the number line. The space between 0 and 1 is divided into 10 equal parts. Therefore each equal part will be equal to one-tenth. 0.2 is the second point between 0 and 1



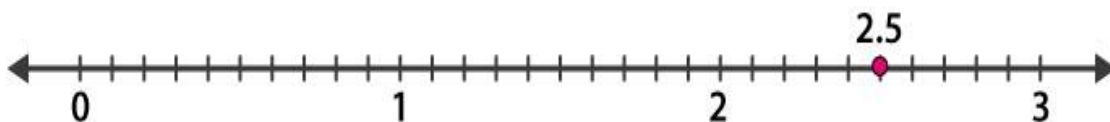
(b) 1.9 lies between the points 1 and 2 on the number line. The space between 1 and 2 is divided into 10 equal parts. Therefore each equal part will be equal to one-tenth. 1.9 is the ninth point between 1 and 2



(c) 1.1 lies between the points 1 and 2 on the number line such that the space between 1 and 2 is divided into 10 equal parts. Therefore each equal part will be equal to one-tenth. 1.1 is the first point between 1 and 2



(d) 2.5 lies between the points 2 and 3 on the number line such that the space between 2 and 3 is divided into 10 equal parts. Therefore each equal part will be equal to one-tenth. 2.5 is the fifth point between 2 and 3



9. Write the decimal number represented by the points A, B, C, and D on the given number line.



Solutions:

- (a) Point A represents 0.8 cm on the given number line.
(b) Point B represents 1.3 cm on the given number line (c)
Point C represents 2.2 cm on the given number line
(d) Point D represents 2.9 cm on the given number line

10. (a) The length of Ramesh's notebook is 9 cm 5 mm. What will be its length in cm?
(b) The length of a young gram plant is 65 mm. Express its length in cm.

Solutions:

- (a) The length of Ramesh notebook is 9 cm 5 mm
The length in cm is $[(9 + 5 / 10)]$ cm
 $= 9.5$ cm
- (b) The length of a gram plant is 65 mm
Hence, the length in cm is $65 / 10$
 $= 6.5$ cm

EXERCISE 8.2

1. Complete the table with the help of these boxes and use decimals to write the number.

(a)

(b)

(c)

	Ones	Tenths	Hundredths	Number
(a)				
(b)				
(c)				

Solutions:

Rows	Ones	Tenths	Hundredths	Number
(a)	0	2	6	0.26
(b)	1	3	8	1.38
(c)	1	2	8	1.28

2. Write the numbers given in the following place value table in decimal form.

Rows	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
	100	10	1	1 / 10	1 / 100	1 / 1000
(a)	0	0	3	2	5	0
(b)	1	0	2	6	3	0
(c)	0	3	0	0	2	5
(d)	2	1	1	9	0	2
(e)	0	1	2	2	4	1

Solutions:

(a) $3 + 2 / 10 + 5 / 100$
 $= 3 + 0.2 + 0.05$
 $= 3.25$

(b) $100 + 2 + 6 / 10 + 3 / 100$
 $= 102 + 0.6 + 0.03$
 $= 102.63$

- (c) $30 + 2 / 100 + 5 / 1000$
 $= 30 + 0.02 + 0.005$
 $= 30.025$
- (d) $200 + 10 + 1 + 9 / 10 + 2 / 1000$
 $= 211 + 0.9 + 0.002$
 $= 211.902$
- (e) $10 + 2 + 2 / 10 + 4 / 100 + 1 / 1000$
 $= 12 + 0.2 + 0.04 + 0.001$
 $= 12.241$

3. Write the following decimals in the place value table.

- (a) 0.29
 (b) 2.08
 (c) 19.60
 (d) 148.32
 (e) 200.812

Solutions:

- (a) 0.29
 $= 0.2 + 0.09$
 $= 2 / 10 + 9 / 100$
- (b) 2.08
 $= 2 + 0.08$
 $= 2 + 8 / 100$
- (c) 19.60
 $= 19 + 0.60$
 $= 10 + 9 + 6 / 10$
- (d) 148.32
 $= 148 + 0.3 + 0.02$
 $= 100 + 40 + 8 + 3 / 10 + 2 / 100$
- (e) 200.812
 $= 200 + 0.8 + 0.01 + 0.002$
 $= 200 + 8 / 10 + 1 / 100 + 2 / 1000$

Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
0	0	0	2	9	0
0	0	2	0	8	0
0	1	9	6	0	0
1	4	8	3	2	0
2	0	0	8	1	2

4. Write each of the following as decimals.

(a) $20 + 9 + 4 / 10 + 1 / 100$

(b) $137 + 5 / 100$

(c) $7 / 10 + 6 / 100 + 4 / 1000$

(d) $23 + 2 / 10 + 6 / 1000$

(e) $700 + 20 + 5 + 9 / 100$

Solutions:

(a) $20 + 9 + 4 / 10 + 1 / 100$

$$= 29 + 0.4 + 0.01$$

$$= 29.41$$

(b) $137 + 5 / 100$

$$= 137 + 0.05$$

$$= 137.05$$

(c) $7 / 10 + 6 / 100 + 4 / 1000$

$$= 0.7 + 0.06 + 0.004$$

$$= 0.764$$

(d) $23 + 2 / 10 + 6 / 1000$

$$= 23 + 0.2 + 0.006$$

$$= 23.206$$

(e) $700 + 20 + 5 + 9 / 100$

$$= 725 + 0.09$$

$$= 725.09$$

5. Write each of the following decimals in words.

(a) **0.03**

(b) **1.20**

(c) **108.56**

(d) **10.07**

(e) **0.032**

(f) **5.008**

Solutions:

The following are the decimals in words

(a) 0.03 = zero point zero three

(b) 1.20 = one point two zero

(c) 108.56 = one hundred eight point five six

(d) 10.07 = ten point zero seven

(e) 0.032 = zero point zero three two

(f) 5.008 = five point zero zero eight

- 6. Between which two numbers in tenths place on the number line does each of the given number lie? (a) 0.60**
(b) 0.45
(c) 0.19
(d) 0.66
(e) 0.92
(f) 0.57

Solutions:

- (a)** 0.60 lies between 0 and 0.1 in tenths place
(b) 0.45 lies between 0.4 and 0.5 in tenths place
(c) 0.19 lies between 0.1 and 0.2 in tenths place
(d) 0.66 lies between 0.6 and 0.7 in tenths place
(e) 0.92 lies between 0.9 and 1.0 in tenths place
(f) 0.57 lies between 0.5 and 0.6 in tenths place

7. Write as fractions in lowest terms.

- (a) 0.60**
(b) 0.05
(c) 0.75
(d) 0.18
(e) 0.25
(f) 0.125
(g) 0.066

Solutions:

- (a)** $0.60 = 60 / 100$
 $= 6 / 10$
 $= 3 / 5$
(b) $0.05 = 5 / 100$
 $= 1 / 20$
(c) $0.75 = 75 / 100$
 $= 3 / 4$
(d) $0.18 = 18 / 100$
 $= 9 / 50$
(e) $0.25 = 25 / 100$
 $= 1 / 4$
(f) $0.125 = 125 / 1000$
 $= 1 / 8$
(g) $0.066 = 66 / 1000$
 $= 33 / 500$

EXERCISE 8.3

PAGE NO: 175

1. Which is greater?

- (a) 0.3 or 0.4
- (b) 0.07 or 0.02
- (c) 3 or 0.8
- (d) 0.5 or 0.05
- (e) 1.23 or 1.2
- (f) 0.099 or 0.19
- (g) 1.5 or 1.50
- (h) 1.431 or 1.490
- (i) 3.3 or 3.300
- (j) 5.64 or 5.603

Solutions:

- (a) 0.3 or 0.4

Whole parts for both the numbers are same. We know that the tenth part of 0.4 is greater than that of 0.3 $\therefore 0.4 > 0.3$

- (b) 0.07 or 0.02

Both the numbers have same parts up to the tenth place but the hundredth part of 0.07 is greater than that of 0.02

$\therefore 0.07 > 0.02$

- (c) 3 or 0.8

The whole part of 3 is greater than that of 0.8

$\therefore 3 > 0.8$

- (d) 0.5 or 0.05

Whole parts for both the numbers are same. Here the tenth part of 0.5 is greater than that of 0.05

$\therefore 0.5 > 0.05$

- (e) 1.23 or 1.20

Here both the numbers have same parts up to the tenth place. The hundredth part of 1.23 is greater than that of 1.20

$\therefore 1.23 > 1.20$

- (f) 0.099 or 0.19

Whole parts for both the numbers are same. Here the tenth part of 0.19 is greater than that of 0.099

$\therefore 0.099 < 0.19$

- (g) 1.5 or 1.50

We may find that both numbers have same parts up to the tenth place. Here 1.5 have no digit at hundredth place. It represents that this digit is 0, which is equal to the digit at hundredth place of 1.50. \therefore Both these numbers are equal

- (h) 1.431 or 1.490

Here, both the numbers have same parts up to the tenth place but the hundredth part of 1.490 is greater than that of 1.431

$$\therefore 1.431 < 1.490$$

(i) 3.3 or 3.300

Here, both numbers have same parts up to the tenth place. There are no digits at hundredth and thousandth place of 3.3. It represents that these numbers are 0, which is equal to the digits at hundredth and thousandth place of 3.300. \therefore Both these numbers are equal

(j) 5.64 or 5.603

Here both numbers have same parts up to the tenth place but the hundredth part of 5.64 is greater than that of 5.603

$$\therefore 5.64 > 5.603$$

2. Make five more examples and find the greater number from them.

Solutions:

Five more examples are

(a) 32.55 or 32.5

Whole parts for both the numbers are same. The tenth part are also equal, but the hundredth part of 32.55 is greater than that of 32.5

Hence, $32.55 > 32.5$

(b) 1 or 0.99

The whole part of 1 is greater than that of 0.99

$$\therefore 1 > 0.99$$

(c) 1.09 or 1.093

Here both the numbers have same parts up to the hundredth. But the thousandth part of 1.093 is greater than that of 1.09

$$\therefore 1.093 > 1.09$$

(d) 2 or 1.99

The whole part of 2 is greater than that of 1.99

$$\therefore 2 > 1.99$$

(e) 2.08 or 2.085

Here both the numbers have same parts up to the hundredth. But the thousandth part of 2.085 is greater than that of 2.08

$$\therefore 2.085 > 2.08$$

EXERCISE 8.4

PAGE NO: 177

1. Express as rupees using decimals.

- (a) 5 paise
- (b) 75 paise
- (c) 20 paise
- (d) 50 rupees 90 paise
- (e) 725 paise

Solutions:

We know that there are 100 paise in 1 rupees

- (a) 5 paise = $5 / 100$ rupees
= Rupees 0.05
- (b) 75 paise = $75 / 100$ rupees
= Rupees 0.75
- (c) 20 paise = $20 / 100$ rupees
= Rupees 0.20
- (d) 50 rupees 90 paise = $[(50 + 90 / 100)]$ rupees
= Rupees 50.90
- (e) 725 paise = $725 / 100$ rupees
= Rupees 7.25

2. Express as metres using decimals.

- (a) 15 cm
- (b) 6 cm
- (c) 2 m 45 cm
- (d) 9 m 7 cm
- (e) 419 cm

Solutions:

We know that there are 100 cm in 1 metre

- (a) 15 cm = $15 / 100$ m
= 0.15 m
- (b) 6 cm = $6 / 100$ m
= 0.06 m
- (c) 2 m 45 cm = $[(2 + 45 / 100)]$ m
= 2.45 m
- (d) 9 m 7 cm = $[(9 + 7 / 100)]$ m
= 9.07 m
- (e) 419 cm = $419 / 100$ m
= 4.19 m

3. Express as cm using decimals

- (a) 5 mm
- (b) 60 mm
- (c) 164 mm
- (d) 9 cm 8 mm
- (e) 93 mm

Solutions:

We know that there are 10 mm in 1 cm

- (a) $5 \text{ mm} = 5 / 10 \text{ cm}$
 $= 0.5 \text{ cm}$
- (b) $60 \text{ mm} = 60 / 10 \text{ cm}$
 $= 6.0 \text{ cm}$
- (c) $164 \text{ mm} = 164 / 10 \text{ cm}$
 $= 16.4 \text{ cm}$
- (d) $9 \text{ cm } 8 \text{ mm} = [(9 + 8 / 10)] \text{ cm}$
 $= 9.8 \text{ cm}$
- (e) $93 \text{ mm} = 93 / 10 \text{ cm}$
 $= 9.3 \text{ cm}$

4. Express as km using decimals.

- (a) 8 m
- (b) 88 m
- (c) 8888 m
- (d) 70 km 5 m

Solutions:

We know that there are 1000 metres in 1 km

- (a) $8 \text{ m} = 8 / 1000 \text{ km}$
 $= 0.008 \text{ km}$
- (b) $88 \text{ m} = 88 / 1000 \text{ km}$
 $= 0.088 \text{ km}$
- (c) $8888 \text{ m} = 8888 / 1000 \text{ km}$
 $= 8.888 \text{ km}$
- (d) $70 \text{ km } 5 \text{ m} = [(70 + 5 / 1000)] \text{ km}$
 $= 70.005 \text{ km}$

5. Express as kg using decimals.

- (a) 2 g
- (b) 100 g
- (c) 3750 g
- (d) 5 kg 8 g
- (e) 26 kg 50 g

Solutions:

We know that there are 1000 grams in 1 kg

$$\begin{aligned} \text{(a) } 2 \text{ g} &= 2 / 1000 \text{ kg} \\ &= 0.002 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{(b) } 100 \text{ g} &= 100 / 1000 \text{ kg} \\ &= 0.1 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{(c) } 3750 \text{ g} &= 3750 / 1000 \text{ kg} \\ &= 3.750 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{(d) } 5 \text{ kg } 8 \text{ g} &= [(5 + 8 / 1000)] \text{ kg} \\ &= 5.008 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{(e) } 26 \text{ kg } 50 \text{ g} &= [(20 + 50 / 1000)] \text{ kg} \\ &= 26.050 \text{ kg} \end{aligned}$$

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EXERCISE 8.5

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1. Find the sum in each of the following:

(a) $0.007 + 8.5 + 30.08$

(b) $15 + 0.632 + 13.8$

(c) $27.076 + 0.55 + 0.004$

(d) $25.65 + 9.005 + 3.7$

(e) $0.75 + 10.425 + 2$

(f) $280.69 + 25.2 + 38$

Solutions:(a) Sum of $0.007 + 8.5 + 30.08$

$$\begin{array}{r} 0.007 \\ 8.500 \\ + 30.080 \\ \hline 38.587 \\ \hline \end{array}$$

(b) Sum of $15 + 0.632 + 13.8$

$$\begin{array}{r} 15.000 \\ 0.632 \\ + 13.800 \\ \hline 29.432 \\ \hline \end{array}$$

(c) Sum of $27.076 + 0.55 + 0.004$

$$\begin{array}{r} 27.076 \\ 0.550 \\ + 0.004 \\ \hline 27.630 \\ \hline \end{array}$$

(d) Sum of $25.65 + 9.005 + 3.7$

$$\begin{array}{r} 25.650 \\ 9.005 \\ + 3.700 \\ \hline 38.355 \\ \hline \end{array}$$

(e) Sum of $0.75 + 10.425 + 2$

$$\begin{array}{r}
 0.750 \\
 10.425 \\
 + 2.000 \\
 \hline
 13.175
 \end{array}$$

(f) Sum of $280.69 + 25.2 + 38$

$$\begin{array}{r}
 280.69 \\
 25.20 \\
 + 38.00 \\
 \hline
 343.89 \\
 \hline
 \end{array}$$

2. Rashid spent ₹ 35.75 for Maths book and ₹ 32.60 for Science book. Find the total amount spent by Rashid. Solutions:

Cost of Maths book = ₹ 35.75

Cost of Science book = ₹ 32.60

Total amount spent by Rashid is

$$\begin{array}{r}
 35.75 \\
 + 32.60 \\
 \hline
 68.35 \\
 \hline
 \end{array}$$

∴ Total amount of money spent by Rashid is ₹ 68.35

3. Radhika's mother gave her ₹ 10.50 and her father gave her ₹ 15.80, find the total amount given to Radhika by the parents. Solutions:

Amount given by Radhika's mother = ₹ 10.50

Amount given by Radhika's father = ₹ 15.80

Total amount given by her parents

$$\begin{array}{r}
 10.50 \\
 + 15.80 \\
 \hline
 26.30 \\
 \hline
 \end{array}$$

∴ Total amount of money given by Radhika's parents is ₹ 26.30

4. Nasreen bought 3 m 20 cm cloth for her shirt and 2 m 5 cm cloth for her trouser. Find the total length of cloth bought by her.

Solutions:

$$\begin{array}{r}
 \text{Cloth of shirt} = 3 \text{ m } 20 \text{ cm} \\
 \text{Cloth of trouser} = 2 \text{ m } 5 \text{ cm} \\
 \text{Total length of cloth is} \\
 \begin{array}{r}
 3.20 \\
 + \quad 2.05 \\
 \hline
 5.25
 \end{array}
 \end{array}$$

∴ Total length of cloth bought by Nasreen is 5.25 m

5. Naresh walked 2 km 35 m in the morning and 1 km 7 m in the evening. How much distance did he walk in all?

Solutions:

$$\begin{array}{l}
 \text{Distance walked by Naresh in the morning} = 2 \text{ km } 35 \text{ m} \\
 = [(2 + 35 / 1000)] \text{ km} \\
 = 2.035 \text{ km} \\
 \text{Distance walked by him in the evening} = 1 \text{ km } 7 \text{ m} \\
 = [(1 + 7 / 1000)] \text{ km} \\
 = 1.007 \text{ km}
 \end{array}$$

$$\begin{array}{r}
 \text{Total distance walked by Naresh is} \\
 2.035 \\
 + \quad 1.007 \\
 \hline
 3.042
 \end{array}$$

∴ Total distance walked by Naresh is 3.042 km

6. Sunita travelled 15 km 268 m by bus, 7 km 7 m by car and 500 m on foot in order to reach her school. How far is her school from her residence?

Solutions:

$$\begin{array}{l}
 \text{Distance travelled by bus} = 15 \text{ km } 268 \text{ m} \\
 = [(15 + 268 / 1000)] \text{ km} \\
 = 15.268 \text{ km} \\
 \text{Distance travelled by car} = 7 \text{ km } 7 \text{ m} \\
 = [(7 + 7 / 1000)] \text{ km} \\
 = 7.007 \text{ km} \\
 \text{Distance walked by Sunita} = 500 \text{ m} \\
 = 500 / 1000
 \end{array}$$

$$\begin{array}{r}
 = 0.500 \text{ km} \\
 \text{Total distance of school from her residence is} \\
 15.268 \\
 7.007 \\
 + \quad 0.500 \\
 \hline
 22.775 \\
 \hline
 \end{array}$$

\therefore Total distance of the school from her residence is 22.775 km

7. Ravi purchased 5 kg 400 g rice, 2 kg 20 g sugar and 10 kg 850 g flour. Find the total weight of his purchases.

Solutions:

$$\begin{aligned}
 \text{Weight of rice} &= 5 \text{ kg } 400 \text{ g} \\
 &= [(5 + 400 / 1000)] \text{ kg} \\
 &= 5.400 \text{ kg}
 \end{aligned}$$

$$\begin{aligned}
 \text{Weight of sugar} &= 2 \text{ kg } 20 \text{ g} \\
 &= [(2 + 20 / 1000)] \text{ kg} \\
 &= 2.020 \text{ kg}
 \end{aligned}$$

$$\begin{aligned}
 \text{Weight of flour} &= 10 \text{ kg } 850 \text{ g} \\
 &= [(10 + 850 / 1000)] \text{ kg} \\
 &= 10.850 \text{ kg}
 \end{aligned}$$

Total weight of his purchases is

$$\begin{array}{r}
 5.400 \\
 2.020 \\
 + \quad 10.850 \\
 \hline
 18.270 \\
 \hline
 \end{array}$$

\therefore Total weight of his purchases is 18.270 kg

EXERCISE 8.6

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1. Subtract:

- (a) □ 18.25 from □ 20.75
(b) 202.54 m from 250 m
(c) □ 5.36 from □ 8.40
(d) 2.051 km from 5.206 km
(e) 0.314 kg from 2.107 kg

Solutions:

(a) □ 20.75 - □ 18.75

$$\begin{array}{r} 20.75 \\ - 18.25 \\ \hline 2.50 \end{array}$$

□ 2.50

(b) 250 m - 202.54 m

$$\begin{array}{r} 250.00 \\ - 202.54 \\ \hline 47.46 \end{array}$$

47.46 m

(c) □ 8.40 - □ 5.36

$$\begin{array}{r} 8.40 \\ - 5.36 \\ \hline 3.04 \end{array}$$

□ 3.04

(d) 5.206 km - 2.051 km

$$\begin{array}{r} 5.206 \\ - 2.051 \\ \hline 3.155 \end{array}$$

3.155 km

(e) $2.107 \text{ kg} - 0.314 \text{ kg}$

$$\begin{array}{r} 2.107 \\ - 0.314 \\ \hline 1.793 \end{array}$$

1.793 kg

2. Find the value of:

(a) $9.756 - 6.28$

(b) $21.05 - 15.27$

(c) $18.5 - 6.79$

(d) $11.6 - 9.847$

Solutions:

(a) $\begin{array}{r} 9.756 \\ - 6.280 \\ \hline \end{array}$

3.476

(b) $\begin{array}{r} 21.05 \\ - 15.27 \\ \hline \end{array}$

5.78

(c) $\begin{array}{r} 18.50 \\ - 6.79 \\ \hline \end{array}$

11.71

(d) $\begin{array}{r} 11.600 \\ - 9.847 \\ \hline \end{array}$

1.753

3. Raju bought a book for ₹ 35.65. He gave ₹ 50 to the shopkeeper. How much money did he get back from the shopkeeper? Solutions:

Money given to shopkeeper = ₹ 50.00

Price of the book = ₹ 35.65

Money that Raju will get back from the shopkeeper will be the difference of these two

∴ Money left with Raju is

$$\begin{array}{r}
 50.00 \\
 - 35.65 \\
 \hline
 14.35 \\
 \hline
 \end{array}$$

Hence, money left with Raju is ₹ 14.35

4. Rani had ₹ 18.50. She bought one ice cream for ₹ 11.75. How much money does she have now? Solutions:

Money with Rani = ₹ 18.50

Price of an ice cream = ₹ 11.75

Now money left with Rani will be the difference of these two

Hence, money left with her is

$$\begin{array}{r}
 18.50 \\
 - 11.75 \\
 \hline
 6.75 \\
 \hline
 \end{array}$$

∴ Money left with Rani is ₹ 6.75

5. 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? Solutions:

Length of cloth = 20 m 5 cm

$$= 20.05 \text{ m}$$

Length of cloth to make a curtain = 4 m 50 cm

$$= 4.50 \text{ m}$$

Length of cloth left with Tina will be the difference of these two

Thus length of cloth left with her is

$$\begin{array}{r}
 20.05 \\
 - 4.50 \\
 \hline
 15.55 \\
 \hline
 \end{array}$$

∴ The length of the remaining cloth left with Tina is 15.55 m

6. Namita travels 20 km 50 m every day. Out of this she travels 10 km 200 m by bus and the rest by auto. How much distance does she travel by auto? Solutions:

Total distance travelled by Namita = 20 km 50 m

$$= 20.050 \text{ km}$$

Distance travelled by bus = 10 km 200 m

$$= 10.200 \text{ km}$$

Distance travelled by auto = Total distance travelled – Distance travelled by bus

∴ Distance to be travelled by auto is

$$\begin{array}{r} 20.050 \\ - 10.200 \\ \hline 9.850 \end{array}$$

∴ Namita travelled 9.850 km by auto

7. Aakash bought vegetables weighing 10 kg. Out of this, 3 kg 500 g is onions, 2 kg 75 g is tomatoes and the rest is potatoes. What is the weight of the potatoes?

Solutions:

Total weight of vegetables Aakash bought = 10.000 kg

Weight of onions = 3 kg 500 g
= 3.500 kg

Weight of tomatoes = 2 kg 75 g
= 2.075 kg

Weight of potatoes = Total weight of vegetables bought – (weight of onions + weight of tomatoes)
= 10.000 – (3.500 + 2.075)

$$\begin{array}{r} 3.500 \\ + 2.075 \\ \hline 5.575 \\ \hline 10.000 \\ - 5.575 \\ \hline 4.425 \end{array}$$

∴ 4.425 kg is the weight of the potatoes