

NCERT Solutions for 6th Class Maths: Chapter 8-Decimals



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NCERT Solutions for 6th Class Maths: Chapter 8-Decimals

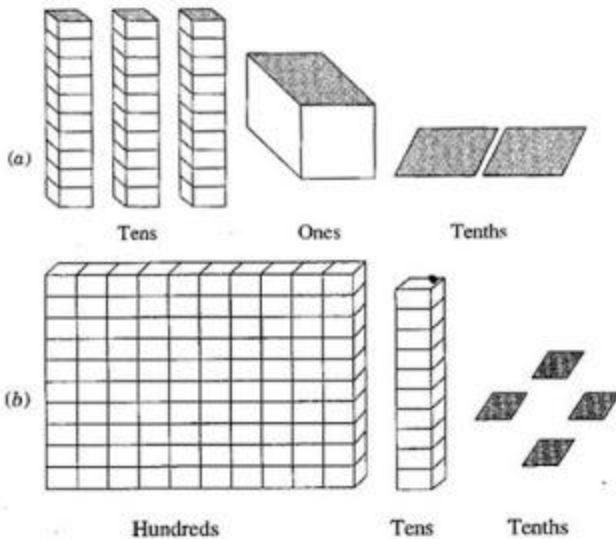
Class 6: Maths Chapter 8 solutions. Complete Class 6 Maths Chapter 8 Notes.

NCERT Solutions for 6th Class Maths: Chapter 8-Decimals

NCERT 6th Maths Chapter 8, class 6 Maths Chapter 8 solutions

Exercise 8.1

1. Write the following as numbers in the given table:



Hundred s	Ten s	One s	Tenth s
(100)	(10)	(1)	(1/10)

Answer

Hundred s	Ten s	One s	Tenth s	Number
(100)	(10)	(1)	(1/10)	
0	3	1	2	31.2
1	1	0	4	110.4

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

(a) 19.4

(b) 0.3

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(c) 10.6

(d) 205.9

Answer

(a)

Hundred s	Ten s	Onc e	Tenth s
0	1	9	4

(b)

Hundred s	Ten s	Onc e	Tenth s
0	0	0	3

(c)

Hundred s	Ten s	Onc e	Tenth s
0	1	0	6

(d)

Hundred s	Ten s	Onc e	Tenth s
2	0	5	9

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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

Answer

(a) seven-tenths = 7 tenths = $7/10 = 0.7$

(b) 2 tens and 9-tenths = $2 \times 10 + 9/10 = 20 + 0.9 = 20.9$

(c) Fourteen point six = 14.6

(d) One hundred and 2-ones = $100 + 2 \times 1 = 100 + 2 = 102$

(e) Six hundred point eight = 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) $4.2/10$

(g) $3/2$

(h) $2/5$

(i) $12/5$

(j) $3.3/5$

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(k) $4\frac{1}{2}$

Answer

(a) $5/10 = 0.5$

(b) $3+7/10 = 3 + 0.7 = 3.7$

(c) $200+60+5+1/10 = 200 + 60 + 5 + 0.1 = 265.1$

(d) $70+8/10 = 70 + 0.8 = 70.8$

(e) $88/10=(80+8)/10=80/10+8/10=8+8/10= 8 + 0.8 = 8.8$

(f) $4.2/10=(4+2)/10 = 4 + 0.2 = 4.2$

(g) $3/2=(3\times 5)/(2\times 5)=15/10=(10+5)/10=10/10+5/10 = 1 + 0.5 = 1.5$

(h) $2/5=(2\times 2)/(5\times 2)=4/10= 0.4$

(i) $12/5=(12\times 2)/(5\times 2)=24/10=(20+4)/10=20/10+4/10 = 2 + 0.4 = 2.4$

(j) $3.3/5=3+3/5=3+(3\times 2)/(5\times 2)=3+6/10= 3 + 0.6 = 3.6$

(k) $4.1/2=4+1/2=4+(1\times 5)/(2\times 5)=4+5/10= 4 + 0.5 = 4.5$

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

(a) 0.6

(b) 2.5

(c) 1.0

(d) 3.8

(e) 13.7

(f) 21.2

(g) 6.4

Answer

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(a) $0.6 = \frac{6}{10} = \frac{3}{5}$

(b) $2.5 = \frac{25}{10} = \frac{5}{2}$

(c) $1.0 = \frac{10}{10} = 1$

(d) $3.8 = \frac{38}{10} = \frac{19}{5}$

(e) $13.7 = \frac{137}{10}$

(f) $21.2 = \frac{212}{10} = \frac{106}{5}$

(g) $6.4 = \frac{64}{10} = \frac{32}{5}$

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

Answer

(a) $\therefore 10 \text{ mm} = 1 \text{ cm}$

(b) $2.5 = \frac{25}{10} = \frac{5}{2}$

(c) $1.0 = \frac{10}{10} = 1$

(d) $3.8 = \frac{38}{10} = \frac{19}{5}$

(e) $13.7 = \frac{137}{10}$

(f) $21.2 = \frac{212}{10} = \frac{106}{5}$

(g) $6.4 = \frac{64}{10} = \frac{32}{5}$

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

(a) 0.8

(b) 5.1

(c) 2.6

(d) 6.4

(e) 9.1

(f) 4.9

Answer

(a) From 0 to 1, 0.8 is nearest to 1.

(b) From 5 to 6, 5.1 is nearest to 5.

(c) From 2 to 3, 2.6 is nearest to 3.

(d) From 6 to 7, 6.4 is nearest to 6.

(e) From 9 to 10, 9.1 is nearest to 9.

(f) From 4 to 5, 4.9 is nearest to 5.

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8. Show the following numbers on the number line:

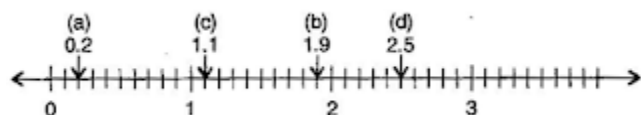
(a) 0.2

(b) 1.9

(c) 1.1

(d) 2.5

Answer



9. Write the decimal number represented by the points A, B, C, D:



Answer

$$A = 0 + 8/10 = 0.8$$

$$B = 1 + 3/10 = 1.3$$

$$C = 2 + 2/10 = 2.2$$

$$D = 2 + 9/10 = 2.9$$

10. (a) The length of Ramesh's notebook is 9 cm and 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.

Answer

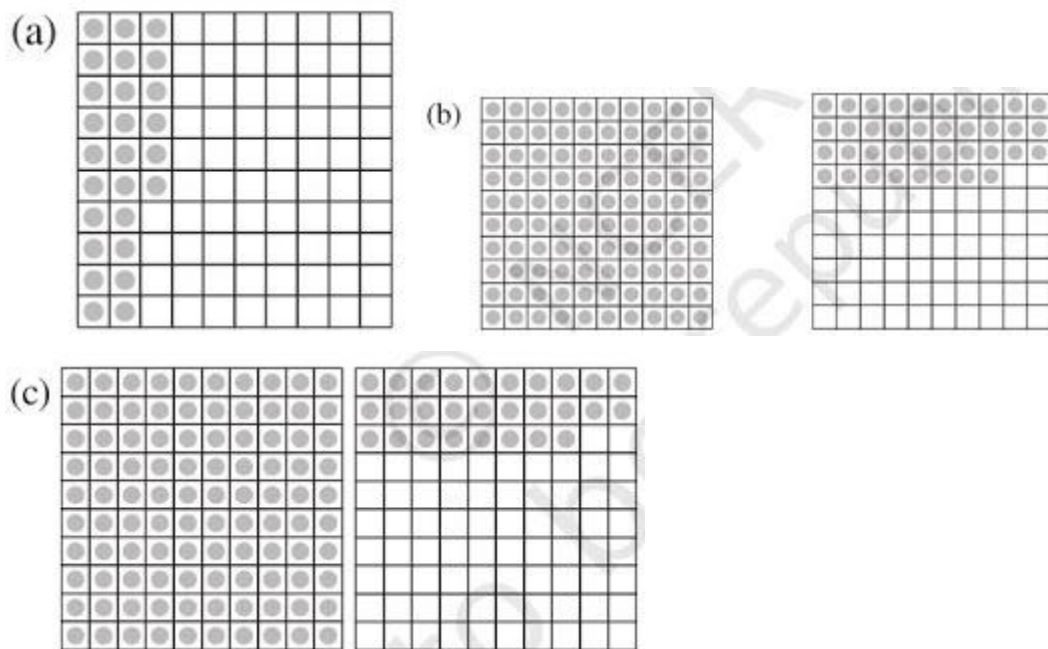
$$(a) 9 \text{ cm } 5 \text{ mm} = 9 \text{ cm} + 5 \text{ mm} = 9 + 5/10 = 9.5 \text{ cm}$$

$$(b) 65 \text{ mm} = 65/10 \text{ cm} = 6.5 \text{ cm}$$

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Exercise 8.2

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



One s	Tenth s	Hundreth s	Number s
----------	------------	---------------	-------------

(a)

(b)

(c)

Answer

One s	Tenth s	Hundreth s	Number s
----------	------------	---------------	-------------

(a) 0 2 6 0.26

(b) 1 3 8 1.38

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(c) 1 2 9 1.29

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

	Hundred s	Ten s	One s	Tenth s	Hundreth s	Thousandt hs
	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

Answer

$$(a) 0 \times 100 + 0 \times 10 + 3 \times 1 + 2 \times 1/10 + 5 \times 1/100 + 0 \times 1/1000$$

$$= 0 + 0 + 3 + 0.2 + 0.05 + 0 = 3.25$$

$$(b) 1 \times 100 + 0 \times 10 + 2 \times 1 + 6 \times 1/10 + 3 \times 1/100 + 0 \times 1/1000$$

$$= 1 + 0 + 2 + 0.6 + 0.03 + 0 = 102.63$$

$$(c) 0 \times 100 + 3 \times 10 + 0 \times 1 + 0 \times 1/10 + 2 \times 1/100 + 5 \times 1/1000$$

$$= 0 + 30 + 0 + 0 + 0.02 + 0.005 = 30.025$$

$$(d) 2 \times 100 + 1 \times 10 + 1 \times 1 + 9 \times 1/10 + 0 \times 1/100 + 2 \times 1/1000$$

$$= 200 + 10 + 1 + 0.9 + 0 + 0.002 = 211.902$$

$$(e) 0 \times 100 + 1 \times 10 + 2 \times 1 + 2 \times 1/10 + 4 \times 1/100 + 1 \times 1/1000$$

$$= 0 + 10 + 2 + 0.2 + 0.04 + 0.001 = 12.241$$

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

(a) 0.29

(b) 2.08

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(c) 19.60

(d) 148.32

(e) 200.812

Answer

	Number s	Hundred s	Ten s	One s	Tenth s	Hundreth s	Thousandt hs
		100	10	1	1/10	1/100	1/1000
(a) 0.29	0	0	0	0	2	9	0
(b) 2.08	0	0	0	2	0	8	0
(c) 19.60	0	0	1	9	6	0	0
(d) 148.32	1	4	8	3	2	0	0
(e) 200.812	2	0	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) $700+20+5+9/100$

Answer

(a) $20 + 9 + 0.4 + 0.01 = 29.41$

(b) $137 + 0.05 = 137.05$

(c) $0.7 + 0.06 + 0.004 = 0.764$

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(d) $23 + 0.2 + 0.006 = 23.206$

(e) $700 + 20 + 5 + 0.09 = 725.09$

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

Answer

(a) Zero point zero three

(b) One point two zero

(c) One hundred and eight point five six

(d) Ten point zero seven

(e) Zero point zero three two

(f) 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) 0.06

(b) 0.45

(c) 0.19

(d) 0.66

(e) 0.92

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(f) 0.57

Answer

All the numbers lie between 0 and 1.

(a) 0.06 is nearer to 0.1.

(b) 0.45 is nearer to 0.5.

(c) 0.19 is nearer to 0.2.

(d) 0.66 is nearer to 0.7.

(e) 0.92 is nearer to 0.9.

(f) 0.57 is nearer to 0.6.

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

Answer

(a) $0.60 = \frac{60}{100} = \frac{3}{5}$

(b) $0.05 = \frac{5}{100} = \frac{1}{20}$

(c) $0.75 = \frac{75}{100} = \frac{3}{4}$

(d) $0.18 = \frac{18}{100} = \frac{9}{50}$

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(e) $0.25 = 25/100 = 14$

(f) $0.125 = 125/1000 = 18$

(g) $0.066 = 66/1000 = 33500$

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Exercise 8.3

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

Answer

Before comparing, we write both terms in like decimals:

(a) $0.3 < 0.4$

(b) $0.07 > 0.02$

(c) $3.0 \text{ or } 0.8 \Rightarrow 3.0 > 0.8$

(d) $0.50 \text{ or } 0.05 \Rightarrow 0.50 > 0.05$

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- (e) 1.23 or $1.20 \Rightarrow 1.23 > 1.20$
(f) 0.099 or $0.190 \Rightarrow 0.099 < 0.190$
(g) 1.50 or $1.50 \Rightarrow 1.50 = 1.50$
(h) $1.431 < 1.490$
(i) 3.300 or $3.300 \Rightarrow 3.300 = 3.300$
(j) 5.640 or $5.603 \Rightarrow 5.640 > 5.603$

2. Make five more examples and find the greater:

- (a) 1.8 or 1.82
(b) 1.0009 or 1.09
(c) 10.01 or 100.1
(d) 5.100 or 5.0100
(e) 04.213 or 0421.3

Answer

Before comparing, we write both the terms in like decimals

- (i) 1.80 or $1.82 \Rightarrow 1.82$ is greater than 1.8
(ii) 1.0009 or $1.0900 \Rightarrow 1.09$ is greater than 1.0009
(iii) 10.01 or $100.10 \Rightarrow 100.1$ is greater than 10.01
(iv) 5.1000 or $5.0100 \Rightarrow 5.100$ is greater than 5.0100
(v) 04.213 or $0421.300 \Rightarrow 0421.3$ is greater than 04.213

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Exercise 8.4

1. Express as rupees using decimals:

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

Answer

- (a) $\because 1 \text{ paise} = \text{Rs. } 1/100$
 $\therefore 5 \text{ paise} = 1/100 \times 5 = \text{Rs. } 0.05$
- (b) $\because 1 \text{ paise} = \text{Rs. } 1/100$
 $\therefore 75 \text{ paise} = 1/100 \times 75 = \text{Rs. } 0.75$
- (c) $\because 1 \text{ paise} = \text{Rs. } 1/100$
 $\therefore 20 \text{ paise} = 1/100 \times 20 = \text{Rs. } 0.20$
- (d) $\because 1 \text{ paise} = \text{Rs. } 1/100$
 $\therefore \text{Rs. } 50 + 90 \text{ paise} = 50 + 1/100 \times 90 = \text{Rs. } 50.90$
- (e) $\because 1 \text{ paise} = \text{Rs. } 1/100$
 $\therefore 725 \text{ paise} = 1/100 \times 725 = 725/100 = \text{Rs. } 7.25$

2. Express as meters using decimals:

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

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Answer

(a) $\because 1 \text{ cm} = 1/100 \text{ m}$

$\therefore 15 \text{ cm} = 1/100 \times 15 = 0.15 \text{ m}$

(b) $\because 1 \text{ cm} = 1/100 \text{ m}$

$\therefore 6 \text{ cm} = 1/100 \times 6 = 0.06 \text{ m}$

(c) $\because 1 \text{ cm} = 1/1000 \text{ m}$

$\therefore 2 \text{ m } 45 \text{ cm} = 2 + 1/100 \times 45 = 2.45 \text{ m}$

(d) $\because 1 \text{ cm} = 1/100 \text{ m}$

$\therefore 9 \text{ m } 7 \text{ cm} = 9 + 1/100 \times 7 = 9.07 \text{ m}$

(e) $\because 1 \text{ cm} = 1/100 \text{ m}$

$\therefore 419 \text{ cm} = 1/100 \times 419 = 419/100 = 4.19 \text{ m}$

3. Express as cm using decimals:

(a) 5 mm

(b) 60 mm

(c) 164 mm

(d) 9 cm 8 mm

(e) 93 mm

Answer

(a) $\because 1 \text{ mm} = 1/10 \text{ cm}$

$\therefore 5 \text{ mm} = 1/10 \times 5 = 0.5 \text{ cm}$

(b) $\because 1 \text{ mm} = 1/10 \text{ cm}$

$\therefore 60 \text{ mm} = 1/10 \times 60 = 6 \text{ cm}$

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(c) $\therefore 1 \text{ mm} = 1/10 \text{ cm}$

$\therefore 164 \text{ mm} = 1/10 \times 164 = 16.4 \text{ cm}$

(d) $\therefore 1 \text{ mm} = 1/10 \text{ cm}$

$\therefore 9 \text{ cm } 8 \text{ mm} = 9 + 1/10 \times 8 = 9 + 0.8 = 9.8 \text{ cm}$

(e) $\therefore 1 \text{ mm} = 1/10 \text{ cm}$

$\therefore 93 \text{ mm} = 1/10 \times 93 = 9.3 \text{ cm}$

4. Express as km using decimals:

(a) 8 m

(b) 88 m

(c) 8888 m

(d) 70 km 5 m

Answer

(a) $\therefore 1 \text{ m} = 1/1000 \text{ km}$

$\therefore 8 \text{ m} = 1/1000 \times 8 = 0.008 \text{ km}$

(b) $\therefore 1 \text{ m} = 1/1000 \text{ km}$

$\therefore 88 \text{ m} = 1/1000 \times 88 = 0.088 \text{ km}$

(c) $\therefore 1 \text{ m} = 1/1000 \text{ km}$

$\therefore 8888 \text{ m} = 1/1000 \times 8888 = 8.888 \text{ km}$

(d) $\therefore 1 \text{ m} = 1/1000 \text{ km}$

$\therefore 70 \text{ km } 5 \text{ m} = 70 + 1/1000 \times 5 = 70.005 \text{ km}$

5. Express as kg using decimals:

(a) 2 g

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

Answer

- (a) $\because 1 \text{ g} = 1/1000 \text{ kg}$
 $\therefore 2 \text{ g} = 1/1000 \times 2 = 0.002 \text{ kg}$
- (b) $\because 1 \text{ g} = 1/1000 \text{ kg}$
 $\therefore 100 \text{ g} = 1/1000 \times 100 = 0.1 \text{ kg}$
- (c) $\because 1 \text{ g} = 1/1000 \text{ kg}$
 $\therefore 3750 \text{ g} = 1/1000 \times 3750 = 3.750 \text{ kg}$
- (d) $\because 1 \text{ g} = 1/1000 \text{ kg}$
 $\therefore 5 \text{ kg } 8 \text{ g} = 5 + 1/1000 \times 8 = 5.008 \text{ kg}$
- (e) $\because 1 \text{ g} = 1/1000 \text{ kg}$
 $\therefore 26 \text{ kg } 50 \text{ g} = 26 + 1/1000 \times 50 = 26.050 \text{ kg}$

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Exercise 8.5

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) $25.65 + 9.005 + 3.7$

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(e) $0.75 + 10.425 + 2$

(f) $280.69 + 25.2 + 38$

Answer

(a) 38.587

(b) 29.432

(c) 27.630

(d) 38.355

(e) 13.175

(f) 343.89

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

Answer

Money spent for Maths book = Rs. 35.75

Money spent for Science book = Rs. 32.60

Total money spent = Rs. 35.75 + Rs. 32.60 = Rs. 68.35

Therefore, total money spent by Rashid is Rs. 68.35.

3. Radhika's mother gave her Rs. 10.50 and her father gave her Rs. 15.80. Find the total amount given to Radhika by her parents.

Answer

Money given by her mother = Rs. 10.50

Money given by her father = Rs. 15.80

Total money received by Radha = Rs. 10.50 + Rs. 15.80 = Rs. 26.30

Therefore, total money received by Radha is Rs. 26.30.

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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.

Answer

Cloth bought for shirt = 3 m 20 cm = 3.20 m

Cloth bought for trouser = 2 m 5 cm = 2.05 m

Total length of cloth bought by Nasreen = 3.20 m + 2.05 m = 5.25 m

Therefore, 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?

Answer

Distance travelled in the morning = 2 km 35 m = 2.035 km

Distance travelled in the evening = 1 km 7 m = 1.007 km

Total distance travelled = 2.035 km + 1.007 km = 3.042 km

Therefore, total distance travelled 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?

Answer

Distance travelled by bus = 15 km 268 m = 15.268 km

Distance travelled by car = 7 km 7 m = 7.007 km

Distance travelled on foot = 500 m = 0.500 km

Total distance travelled = 15.268 m + 7.007 m + 0.500 m = 22.775 km

Therefore, total distance travelled by Sunita is 22.775 km.

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

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Answer

Weight of Rice = 5 kg 400 g = 5.400 kg

Weight of Sugar = 2 kg 20 g = 2.020 kg

Weight of Flour = 10 kg 850 g = 10.850 kg

Total weight = 5.400 kg + 2.020 kg + 10.850 kg = 18.270 kg

Therefore total weight of Ravi's purchase = 18.270 kg.

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Exercise 8.6**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

Answer

(a) Rs. 2.50

(b) 47.46 m

(c) Rs. 3.04

(d) 3.155 km

(e) 1.793 kg

2. Find the value of:

(a) $9.756 - 6.28$

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(b) $21.05 - 15.27$

(c) $18.5 - 6.79$

(d) $11.6 - 9.847$

Answer

(a) 3.476

(b) 5.78

(c) 11.71

(d) 1.753

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

Answer

Total amount given to the shopkeeper = Rs. 50

Cost of book = Rs. 35.65

Amount left = Rs. 50.00 - Rs. 35.65 = Rs. 14.35

Therefore, Raju got back Rs. 14.35 from the shopkeeper.

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

Answer

Total money = Rs. 18.50

Cost of Ice-cream = Rs. 11.75

Amount left = Rs. 18.50 - Rs. 11.75 = Rs. 6.75

Therefore, Rani has Rs. 6.75 now.

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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?

Answer

Total length of the cloth = 20 m 5 cm = 20.05 m

Length of the cloth used = 4 m 50 cm = 4.50 m

Remaining cloth = 20.05 m – 4.50 m = 15.55 m

Therefore, 15.55 m of cloth is left with Tina.

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?

Answer

Total distance to travel everyday = 20 km 50 m = 20.050 km

Distance travelled by bus = 10 km 200 m = 10.200 km

Distance travelled by auto = 20.050 km – 10.200 km = 9.850 km

Therefore, 9.850 km distance is travelled by auto everyday.

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

Answer

Weight of onions = 3 kg 500 g = 3.500 kg

Weight of tomatoes = 2 kg 75 g = 2.075 kg

Total weight of onions and tomatoes = 3.500 kg + 2.075 kg = 5.575 kg

Therefore, weight of potatoes = 10.000 kg – 5.575 kg = 4.425 kg

Thus, weight of potatoes is 4.425 kg.

NCERT 6th Maths Chapter 8, class 6 Maths Chapter 8 solutions

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Chapterwise NCERT Solutions for Class 6 Maths :

- Chapter 1 Knowing Our Numbers
- Chapter 2 Whole Numbers
- Chapter 3 Playing with Numbers
- Chapter 4 Basic Geometrical Ideas
- Chapter 5 Understanding Elementary Shapes
- Chapter 6 Integers
- Chapter 7 Fractions
- Chapter 8 Decimals
- Chapter 9 Data Handling
- Chapter 10 Mensuration
- Chapter 11 Algebra
- Chapter 12 Ratio and Proportion
- Chapter 13 Symmetry
- Chapter 14 Practical Geometry

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