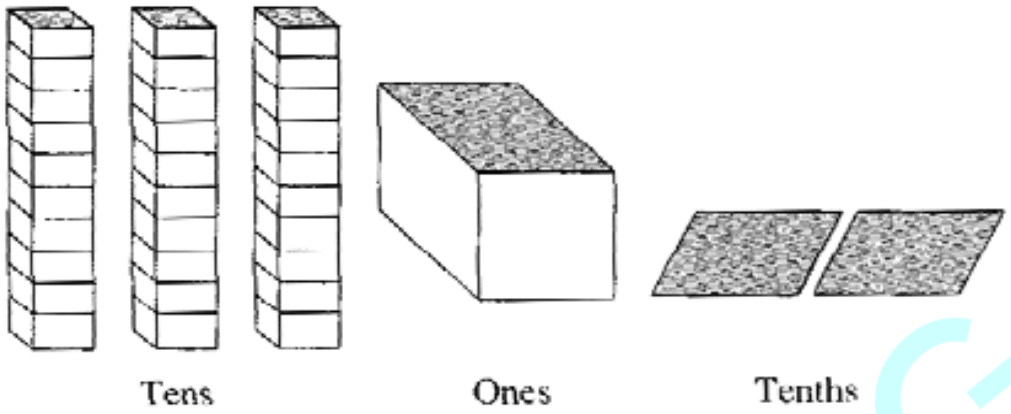
# Class VI Mathematics
## Chapter-8 DECIMALS

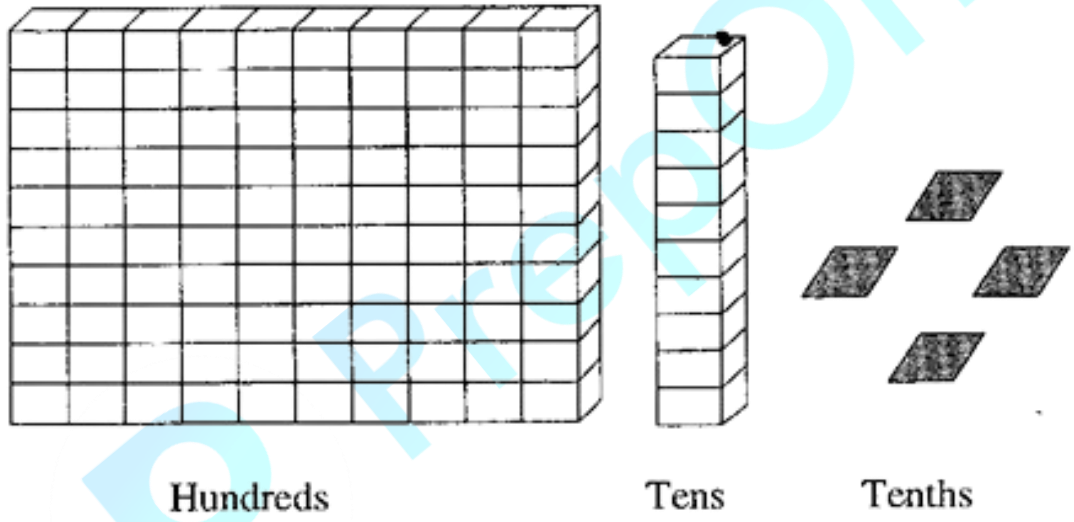
**Exercise 8.1**

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

(a)




(b)




| Hundreds (100) | Tens (10) | Ones (1) | Tenths $(\frac{1}{10})$ | Number |
|---|---|---|---|---|
| 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

**Ans:**

| Hundreds | Tens | Ones | Tenths |
|---|---|---|---|
| 0 | 1 | 9 | 4 |

**(b)** 0.3

**Ans:**

| Hundreds | Tens | Ones | Tenths |
|---|---|---|---|
| 0 | 0 | 0 | 3 |

**(c)** 10.6

**Ans:**

| Hundreds | Tens | Ones | Tenths |
|---|---|---|---|
| 0 | 1 | 0 | 6 |

**(d)** 205.9

**Ans:**

| Hundreds | Tens | Ones | Tenths |
|---|---|---|---|
| 2 | 0 | 5 | 9 |

**3. Write each of the following as decimals:**

**(a)** Seven-tenths

**Ans:** seven-tenths = 7 tenths = $\frac{7}{10}$ = 0.7

**(b)** Two tens and nine-tenths

**Ans:** 2 tens and 9-tenths = $2 \times 10 + \frac{9}{10}$ = 20 + 0.9 = 20.9

**(c)** Fourteen point six

**Ans:** Fourteen point six = 14.6

**(d)** One hundred and two-ones

**Ans:** One hundred and two-ones = $100 + 2 \times 1 = 100 + 2 = 102$

**(e)** Six hundred point eight

**Ans:** Six hundred point eight = 600.8

**4. Write each of the following as decimals:**

**(a)** $\frac{5}{10}$

**Ans:** $\frac{5}{10} = 0.5$

**(b)** $3 + \frac{7}{10}$

**Ans:** $3 + \frac{7}{10} = 3 + 0.7 = 3.7$

**(c)** $200 + 60 + 5 + \frac{1}{10}$

**Ans:** $200 + 60 + 5 + \frac{1}{10} = 200 + 60 + 5 + 0.1 = 265.1$

**(d)** $70 + \frac{8}{10}$

**Ans:** $70 + \frac{8}{10} = 70 + 0.8 = 70.8$

**(e)** $\frac{88}{10}$

**Ans:** $\frac{88}{10} = \frac{80+8}{10} = \frac{\cancel{80}}{\cancel{10}} + \frac{8}{10} = 8 + \frac{8}{10} = 8 + 0.8 = 8.8$

**(f)** $4\frac{2}{10}$

**Ans:** $4\frac{2}{10} = 4 + \frac{2}{10} = 4 + 0.2 = 4.2$

**(g)** $\frac{3}{2}$

**Ans:** $\frac{3}{2} = \frac{3\times5}{2\times5} = \frac{15}{10} = \frac{10+5}{10} = \frac{\cancel{10}}{\cancel{10}} + \frac{5}{10} = 1 + 0.5 = 1.5$

**(h)** $\frac{2}{5}$

**Ans:** $\frac{2}{5} = \frac{2\times2}{5\times2} = \frac{4}{10} = 0.4$

**(i)** $\frac{12}{5}$

**Ans:** $\frac{12}{5} = \frac{12\times2}{5\times2} = \frac{24}{10} = \frac{20+4}{10} = \frac{\cancel{20}}{\cancel{10}} + \frac{4}{10} = 2 + 0.4 = 2.4$

**(j)** $3\frac{3}{5}$

**Ans:** $3\frac{3}{5} = 3 + \frac{3}{5} = 3 + \frac{3\times2}{5\times2} = 3 + \frac{6}{10} = 3 + 0.6 = 3.6$

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

**Ans:** $4\frac{1}{2} = 4 + \frac{1}{2} = 4 + \frac{1\times5}{2\times5} = 4 + \frac{5}{10} = 4 + 0.5 = 4.5$

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

**(a) 0.6**

**Ans:** $0.6 = \frac{\cancel{6}}{\cancel{10}} = \frac{3}{5}$

**(b) 2.5**

**Ans:** $2.5 = \frac{\cancel{25}}{\cancel{10}} = \frac{5}{2}$

**(c) 1.0**

**Ans:** $1.0 = \frac{\cancel{10}}{\cancel{10}} = 1$

**(d) 3.8**

**Ans:** $3.8 = \frac{\cancel{38}}{\cancel{10}} = \frac{19}{5}$

**(e) 13.7**

**Ans:** $13.7 = \frac{137}{10}$

**(f) 21.2**

**Ans:** $21.2 = \frac{\cancel{212}}{\cancel{10}} = \frac{106}{5}$

**(g) 6.4**

**Ans:** $6.4 = \frac{\cancel{64}}{\cancel{10}} = \frac{32}{5}$

**6. Express the following as cm using decimals:**

**(a) 2 mm**

**Ans:** ∵ 10 mm = 1 cm

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

$\therefore 2 \text{ mm} = \frac{1}{10} \times 2 = 0.2 \text{ cm}$

**(b) 30 mm**

**Ans:** ∵ 10 mm = 1 cm

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

$\therefore 30 \text{ mm} = \frac{1}{10} \times 30 = 3.0 \text{ cm}$

**(c) 116 mm**

**Ans:** ∵ 10 mm = 1 cm

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

$\therefore 116 \text{ mm} = \frac{1}{10} \times 116 = 11.6 \text{ cm}$

**(d) 4 cm 2 mm**

**Ans:** $4 \text{ cm} + \frac{2}{10} \text{ cm}$ [∵ 10 mm = 1 cm]

$\therefore 4 + 0.2 = 4.2 \text{ cm}$

**(e) 162 mm**

**Ans:** ∵ 10 mm = 1 cm

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

$\therefore 162 \text{ mm} = \frac{1}{10} \times 162 = 16.2 \text{ cm}$

**(f) 83 mm**

**Ans:** ∵ 10 mm = 1 cm

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

$\therefore 83 \text{ mm} = \frac{1}{10} \times 83 = 8.3 \text{ cm}$

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

**(a) 0.8**

**Ans:** From 0 to 1, 0.8 is nearest to 1.

**(b) 5.1**

**Ans:** From 5 to 6, 5.1 is nearest to 5.

**(c) 2.6**

**Ans:** From 2 to 3, 2.6 is nearest to 3.

**(d) 6.4**

**Ans:** From 6 to 7, 6.4 is nearest to 6.

**(e) 9.1**

**Ans:** From 9 to 10, 9.1 is nearest to 9.

**(f) 4.9**

**Ans:** From 4 to 5, 4.9 is nearest to 5.

**8. Show the following numbers on the number line:**

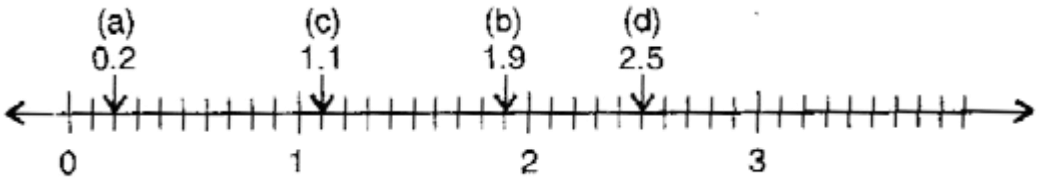
**(a) 0.2**

**(b) 1.9**

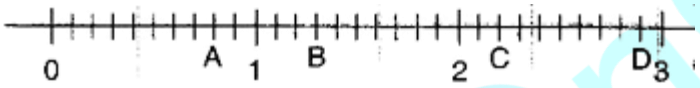
**(c) 1.1**

**(d) 2.5**

**Ans:**




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




**Ans:**

$A = 0 + \frac{8}{10} = 0.8$

$B = 1 + \frac{3}{10} = 1.3$

$C = 2 + \frac{2}{10} = 2.2$

$D = 2 + \frac{9}{10} = 2.9$

**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.**

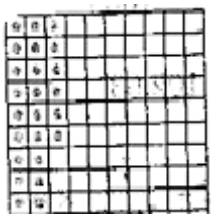
**Ans:** (a) 9 cm 5 mm = 9 cm + 5 mm = $9 + \frac{5}{10}$ = 9. 5 cm.

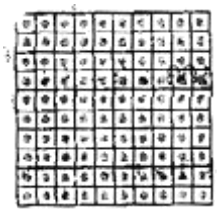
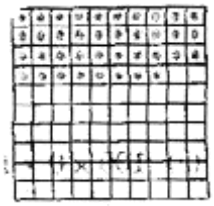
(b) 65 mm = $\frac{65}{10}$ cm = 6.5 cm.

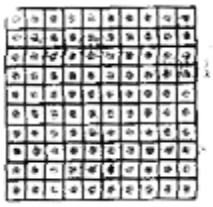
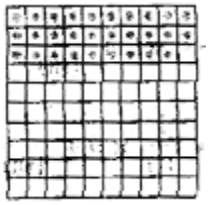
# Class VI Mathematics
## Chapter-8 DECIMALS

**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 | Numbers |
|---|---|---|---|---|
| (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:**

| | **Hundreds 100** | **Tens 10** | **Ones 1** | **Tenths $\frac{1}{10}$** | **Hundredths $\frac{1}{100}$** | **Thousandths $\frac{1}{1000}$** |
|---|---|---|---|---|---|---|
| (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 |

**Ans:** **(a)** $0 \times 100 + 0 \times 10 + 3 \times 1 + 2 \times \frac{1}{10} + 5 \times \frac{1}{100} + 0 \times \frac{1}{1000}$

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

**(b)** $1 \times 100 + 0 \times 10 + 2 \times 1 + 6 \times \frac{1}{10} + 3 \times \frac{1}{100} + 0 \times \frac{1}{1000}$

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

**(c)** $0 \times 100 + 3 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 2 \times \frac{1}{100} + 5 \times \frac{1}{1000}$

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

**(d)** $2 \times 100 + 1 \times 10 + 1 \times 1 + 9 \times \frac{1}{10} + 0 \times \frac{1}{100} + 2 \times \frac{1}{1000}$

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

**(e)** $0 \times 100 + 1 \times 10 + 2 \times 1 + 2 \times \frac{1}{10} + 4 \times \frac{1}{100} + 1 \times \frac{1}{1000}$

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

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

**(a) 0.29**

**(b) 2.08**

**(c) 19.60**

**(d) 148.32**

**(e) 200.812**

**Ans:**

| | Numbers | Hundreds 100 | Tens 10 | Ones 1 | Tenths $\frac{1}{10}$ | Hundredths $\frac{1}{100}$ | Thousandths $\frac{1}{1000}$ |
|---|---|---|---|---|---|---|---|
| **(a)** | 0.29 | 0 | 0 | 0 | 2 | 9 | 0 |
| **(b)** | 2.08 | 0 | 0 | 2 | 0 | 8 | 0 |
| **(c)** | 19.60 | 0 | 1 | 9 | 6 | 0 | 0 |
| **(d)** | 148.32 | 1 | 4 | 8 | 3 | 2 | 0 |
| **(e)** | 200.812 | 2 | 0 | 0 | 8 | 1 | 2 |

**4. Write each of the following as decimals:**

**(a)** $20 + 9 + \frac{4}{10} + \frac{1}{100}$

**Ans:** $20 + 9 + 0.4 + 0.01 = 29.41$

**(b)** $137 + \frac{5}{100}$

**Ans:** $137 + 0.05 = 137.05$

**(c)** $\frac{7}{10} + \frac{6}{100} + \frac{4}{1000}$

**Ans:** $0.7 + 0.06 + 0.004 = 0.764$

**(d)** $23 + \frac{2}{10} + \frac{6}{1000}$

**Ans:** $23 + 0.2 + 0.006 = 23.206$

**(e)** $700 + 20 + 5 + \frac{9}{100}$

**Ans:** $700 + 20 + 5 + 0.09 = 725.09$

**5. Write each of the following decimals in words:**

**(a) 0.03**

**Ans:** Zero point zero three

**(b) 1.20**

**Ans:** One point two zero

**(c) 108.56**

**Ans:** One hundred eight point five six

**(d) 10.07**

**Ans:** Ten point zero seven

**(e) 0.032**

**Ans:** Zero point zero three two

**(f) 5.008**

**Ans:** Five point zero zero eight

**6. Between which two numbers in tenths place on the number line does each of the given number lie?**

All the numbers lie between 0 and 1.

**(a) 0.06**

**Ans:** 0.06 is nearer to 0.1.

**(b) 0.45**

**Ans:** 0.45 is nearer to 0.5.

**(c) 0.19**

**Ans:** 0.19 is nearer to 0.2.

**(d) 0.66**

**Ans:** 0.66 is nearer to 0.7.

**(e) 0.92**

**Ans:** 0.92 is nearer to 0.9.

**(f) 0.57**

**Ans:** 0.57 is nearer to 0.6.

**7. Write as fractions in lowest terms:**

**(a) 0.60**

**Ans:** $0.60 = \frac{\cancel{60}}{\cancel{100}} = \frac{3}{5}$

**(b) 0.05**

**Ans:** $0.05 = \frac{\cancel{5}}{\cancel{100}} = \frac{1}{20}$

**(c) 0.75**

**Ans:** $0.75 = \frac{\cancel{75}}{\cancel{100}} = \frac{3}{4}$

**(d) 0.18**

**Ans:** $0.18 = \frac{\cancel{18}}{\cancel{100}} = \frac{9}{50}$

**(e) 0.25**

**Ans:** $0.25 = \frac{\cancel{25}}{\cancel{100}} = \frac{1}{4}$

**(f) 0.125**

**Ans:** $0.125 = \frac{\cancel{125}}{\cancel{1000}} = \frac{1}{8}$

**(g) 0.066**

**Ans:** $0.066 = \frac{\cancel{66}}{\cancel{1000}} = \frac{33}{500}$

# Class VI Mathematics
## Chapter-8 DECIMALS

**Exercise 8.3**

**1. Which is greater?**

Before comparing, we write both terms in like decimals:

**(a) 0.3 or 0.4**

**Ans:** 0.3 < 0.4

**(b) 0.07 or 0.02**

**Ans:** 0.07 > 0.02

**(c) 3 or 0.8**

**Ans:** 3.0 or 0.8 ⇒ 3.0 > 0.8

**(d) 0.5 or 0.05**

**Ans:** 0.50 or 0.05 ⇒ 0.50 > 0.05

**(e) 1.23 or 1.2**

**Ans:** 1.23 or 1.20 ⇒ 1.23 > 1.20

**(f) 0.099 or 0.19**

**Ans:** 0.099 or 0.190 ⇒ 0.099 < 0.190

**(g) 1.5 or 1.50**

**Ans:** 1.50 or 1.50 ⇒ 1.50 = 1.50

**(h) 1.431 or 1.490**

**Ans:** 1.431 < 1.490

**(i) 3.3 or 3.300**

**Ans:** 3.300 or 3.300 ⇒ 3.300 = 3.300

**(j) 5.64 or 5.603**

**Ans:** 5.640 or 5.603 ⇒ 5.640 > 5.603

**2. Make five more examples and find the greater:**

Before comparing, we write both terms in like decimals

**(a) 1.8 or 1.82**

**Ans:** 1.80 or 1.82 ⇒ 1.82 is greater than 1.8

**(b) 1.0009 or 1.09**

**Ans:** 1.0009 or 1.0900 ⇒ 1.09 is greater than 1.0009

**(c) 10.01 or 100.1**

**Ans:** 10.01 or 100.10 ⇒ 100.1 is greater than 10.01

**(d) 5.100 or 5.0100**

**Ans:** 5.1000 or 5.0100 ⇒ 5.100 is greater than 5.0100

**(e) 04.213 or 0421.3**

**Ans:** 04.213 or 0421.300 ⇒ 0421.3 is greater than 04.213

# Class VI Mathematics
## Chapter-8 DECIMALS

**Exercise 8.4**

**1. Express as rupees using decimals:**

**(a) 5 paise**

**Ans:** ∵ 1 paisa = ₹ $\frac{1}{100}$

∴ 5 paise = $\frac{1}{100} \times 5 =$ ₹ 0.05

**(b) 75 paise**

**Ans:** ∵ 1 paisa = ₹ $\frac{1}{100}$

∴ 75 paise = $\frac{1}{100} \times 75 =$ ₹ 0.75

**(c) 20 paise**

**Ans:** ∵ 1 paisa = ₹ $\frac{1}{100}$

∴ 20 paise = $\frac{1}{100} \times 20 =$ ₹ 0.20

**(d) 50 rupees 90 paise**

**Ans:** ∵ 1 paisa = ₹ $\frac{1}{100}$

∴ 50 rupees 90 paise = $50 + \frac{1}{100} \times 90 =$ ₹ 50.90

**(e) 725 paise**

**Ans:** ∵ 1 paisa = ₹ $\frac{1}{100}$

∴ 725 paise = $\frac{1}{100} \times 725 =$ ₹ 7.25

**2. Express as meters using decimals:**

**(a) 15 cm**

**Ans:** ∵ 1 cm = $\frac{1}{100}$ m

∴ 15 cm = $\frac{1}{100} \times 15 =$ 0.15 m

**(b) 6 cm**

**Ans:** ∵ 1 cm = $\frac{1}{100}$ m

∴ 6 cm = $\frac{1}{100} \times 6 =$ 0.06 m

**(c) 2 m 45 cm**

**Ans:** ∵ 1 cm = $\frac{1}{100}$ m

∴ 2 m 45 cm = $2 + \frac{1}{100} \times 45 =$ 2.45

**(d) 9 m 7 cm**

**Ans:** ∵ 1 cm = $\frac{1}{100}$ m

∴ 9 m 7 cm = $9 + \frac{1}{100} \times 7 =$ 9.07 m

**(e) 419 cm**

**Ans:** $\because 1 \text{ cm} = \frac{1}{100} \text{ m}$

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

**3. Express as cm using decimals:**

**(a) 5 mm**

**Ans:** $\because 1 \text{ mm} = \frac{1}{10} \text{ cm}$

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

**(b) 60 mm**

**Ans:** $\because 1 \text{ mm} = \frac{1}{10} \text{ cm}$

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

**(c) 164 mm**

**Ans:** $\because 1 \text{ mm} = \frac{1}{10} \text{ cm}$

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

**(d) 9 cm 8 mm**

**Ans:** $\because 1 \text{ mm} = \frac{1}{10} \text{ cm}$

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

**(e) 93 mm**

**Ans:** $\because 1 \text{ mm} = \frac{1}{10} \text{ cm}$

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

**4. Express as km using decimals:**

**(a) 8 m**

**Ans:** $\because 1 \text{ m} = \frac{1}{1000} \text{ km}$

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

**(b) 88 m**

**Ans:** $\because 1 \text{ m} = \frac{1}{1000} \text{ km}$

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

**(c) 8888 m**

**Ans:** $\because 1 \text{ m} = \frac{1}{1000} \text{ km}$

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

**(d) 70 km 5 m**

**Ans:** $\because 1 \text{ m} = \frac{1}{1000} \text{ km}$

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

**5. Express as kg using decimals:**

**(a) 2 g**

**Ans:** $\because 1\ g = \frac{1}{1000}\ kg$

$\therefore 2\ g = \frac{1}{1000} \times 2 = 0.002\ kg$

**(b) 100 g**

**Ans:** $\because 1\ g = \frac{1}{1000}\ kg$

$\therefore 100\ g = \frac{1}{1000} \times 100 = 0.1\ kg$

**(c) 3750 g**

**Ans:** $\because 1\ g = \frac{1}{1000}\ kg$

$\therefore 3750\ g = \frac{1}{1000} \times 3750 = 3.750\ kg$

**(d) 5 kg 8 g**

**Ans:** $\because 1\ g = \frac{1}{1000}\ kg$

$\therefore 5\ kg\ 8\ g = 5 + \frac{1}{1000} \times 8 = 5.008\ kg$

**(e) 26 kg 50 g**

**Ans:** $\because 1\ g = \frac{1}{1000}\ kg$

$\therefore 26\ kg\ 50\ g = 26 + \frac{1}{1000} \times 50 = 26.050\ kg$

# Class VI Mathematics
## Chapter-8 DECIMALS

**Exercise 8.5**

**1. Find the sum in each of the following:**

**(a) 0.007 + 8.5 + 30.08**

**Ans:**

| | H | T | O | . | Tenth | Hund. | Thou. | |
|---|---|---|---|---|---|---|---|---|
| | | | 0 | . | 0 | 0 | 7 | |
| | | | 8 | . | 5 | | | |
| + | | 3 | 0 | . | 0 | 8 | | |
| | | 3 | 8 | . | 5 | 8 | 7 | = 38.587 |

**(b) 15 + 0.632 + 13.8**

**Ans:**

| | H | T | O | . | Tenth | Hund. | Thou. | |
|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 5 | . | 0 | 0 | 0 | |
| | | | | . | 6 | 3 | 2 | |
| + | | 1 | 3 | . | 8 | | | |
| | | 2 | 9 | . | 4 | 3 | 2 | = 29.432 |

**(c) 27.076 + 0.55 + 0.004**

**Ans:**

| | H | T | O | . | Tenth | Hund. | Thou. | |
|---|---|---|---|---|---|---|---|---|
| | | 2 | 7 | . | 0 | 7 | 6 | |
| | | | | . | 5 | 5 | | |
| + | | | | . | 0 | 0 | 4 | |
| | | 2 | 7 | . | 6 | 3 | 0 | = 27.630 |

**(d) 25.65 + 9.005 + 3.7**

**Ans:**

| | H | T | O | . | Tenth | Hund. | Thou. | |
|---|---|---|---|---|---|---|---|---|
| | | 2 | 5 | . | 6 | 5 | | |
| | | | 9 | . | 0 | 0 | 5 | |
| + | | | 3 | . | 7 | | | |
| | | 3 | 8 | . | 3 | 5 | 5 | = 38.355 |

**(e) 0.75 + 10.425 + 2**

**Ans:**

| | H | T | O | . | Tenth | Hund. | Thou. | |
|---|---|---|---|---|---|---|---|---|
| | | | | . | 7 | 5 | | |
| | | 1 | 0 | . | 4 | 2 | 5 | |
| + | | | 2 | . | | | | |
| | | 1 | 3 | . | 1 | 7 | 5 | = 13.175 |

**(f) 280.69 + 25.2 + 38**

**Ans:**

| | H | T | O | . | Tenth | Hund. | Thou. | |
|---|---|---|---|---|---|---|---|---|
| | 2 | 8 | 0 | . | 6 | 9 | | |
| | | 2 | 5 | . | 2 | | | |
| + | | 3 | 8 | . | | | | |
| | 3 | 4 | 3 | . | 8 | 9 | | = 343.89 |

**2. Rashid spent ₹ 35.75 for Math book and ₹ 32.60 for Science book. Find the total amount spent by Rashid.**

**Ans:**

Money spent for Math book = ₹ 35.75

Money spent for Science book = ₹ 32.60

Total money spent = ₹ 35.75 + ₹ 32.60 = ₹ 68.35

Therefore. total money spent = ₹ 35.75 + ₹ 32.60 = ₹ 68.35

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

**Ans:**

Money given by mother = ₹ 10.50

Money given by father = ₹ 15.80

Total money received by Radha = ₹ 10.50 + ₹ 15.80 = ₹ 26.30

Therefore, total money received by Radha 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.**

**Ans:**

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

Cloth bought for trouser = 2 m 5 cm = 2.50 m

Total length of cloth bought by Nasreen = 3.20 + 2.05 = 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?**

**Ans:**

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

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

Total distance travelled = 2.035 + 1.007 = 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 by foot in order to reach her school. How far is her school from her residence?**

**Ans:**

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

Therefore, total distance travelled = 15.268 + 7.007 + 0.500 = 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.**

**Ans:** 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 + 2.020 + 10.850 = 18.270 kg

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

# Class VI Mathematics
## Chapter-8 DECIMALS

**Exercise 8.6**

**1. Subtract**

**(a) ₹ 18.25 from ₹ 20.75**
**Ans:**

$$\begin{array}{r} 20.75 \\ -\ 18.25 \\ \hline 02.50 \\ \hline \end{array}$$

**= ₹ 2.50**

**(b) 202.54 m from 250**
**Ans:**

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

**= 47.46 m**

**(c) ₹ 5.36 from ₹ 8.40**
**Ans:**

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

**= ₹ 3.04**

**(d) 2.051 km from 5.206 km**
**Ans:**

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

**= 3.155 km**

**(e) 0.314 kg from 2.107 kg**
**Ans:**

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

**= 1.793 kg**

**2. Find the value of:**

**(a) 9.756 – 6.28**

**Ans:**

$$\begin{array}{r} 9.756 \\ -\ 6.28 \\ \hline 3.476 \end{array}$$

**= 3.476**

**(b) 21.05 – 15.27**

**Ans:**

$$\begin{array}{r} 21.05 \\ -\ 15.27 \\ \hline 05.78 \end{array}$$

**= 5.78**

**(c) 18.5 – 6.79**

**Ans:**

$$\begin{array}{r} 18.50 \\ -\ 6.79 \\ \hline 11.71 \end{array}$$

**= 11.71**

**(d) 11.6 – 9.847**

**Ans:**

$$\begin{array}{r} 11.600 \\ -\ 9.847 \\ \hline 1.753 \end{array}$$

**=1.753**

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

**Ans:** Total amount given to shopkeeper = ₹ 50

Cost of book = ₹ 35.65

Amount left = ₹ 50.00 - ₹ 35.65 = ₹ 14.35

Therefore, Raju got back ₹ 14.35 from the shopkeeper.

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

**Ans:** Total money = ₹18.50

Cost of Ice-cream = ₹ 11.75

Amount left = ₹ 18.50 – ₹ 11.75 = ₹ 6.75

Therefore, Rani has ₹ 6.75 now.

**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?**

**Ans:** Total length of cloth = 20 m 5 cm = 20.05 m

Length of 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?**

**Ans:** Total distance travel = 20 km 50 m = 20.050 km

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

Distance travelled by auto = 20.050 – 10.200 = 9.850 km

Therefore, 9.850 km distance travels by auto.

**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?**

**Ans:** 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 + 2.075 = 5.575 kg

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

Thus, weight of potatoes is 4.425 kg.