

## Chapter 9: Decimal Fractions

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### PROBLEM SET 36 [PAGE 53]

Problem Set 36 | Q 1 | Page 53

Write the following mixed fraction in decimal form and read them aloud.

$$3\frac{9}{10}$$

**SOLUTION**

$$3\frac{9}{10} = \underline{3.9, \text{ Three-point nine.}}$$

Problem Set 36 | Q 2 | Page 53

Write the following mixed fraction in decimal form and read them aloud.

$$1\frac{4}{10}$$

**SOLUTION**

$$1\frac{4}{10} = \underline{1.4, \text{ One point four.}}$$

Problem Set 36 | Q 3 | Page 53

Write the following mixed fraction in decimal form and read them aloud.

$$5\frac{3}{10}$$

**SOLUTION**

$$5\frac{3}{10} = \underline{5.3, \text{ Five-point three.}}$$

Write the following mixed fraction in decimal form and read them aloud.

$$\frac{8}{10}$$

**SOLUTION**

$$\frac{8}{10} - \underline{0.8, \text{Zero points eight.}}$$

Write the following mixed fraction in decimal form and read them aloud.

$$\frac{7}{10}$$

**SOLUTION**

$$\frac{7}{10} - \underline{0.7, \text{Zero points seven.}}$$

**PROBLEM SET 37 [PAGE 53]**

Write the following mixed fraction in decimal form and read them aloud.

$$9\frac{1}{10}$$

**SOLUTION**

$$9\frac{1}{10} - \underline{9.1, \text{Nine points one.}}$$

Write the following mixed fraction in decimal form and read them aloud.

$$9\frac{1}{100}$$

**SOLUTION**

$$9\frac{1}{100} - \underline{9.01, \text{Nine points zero one.}}$$

Problem Set 37 | Q 3 | Page 53

**Write the following mixed fraction in decimal form and read them aloud.**

$$4\frac{53}{100}$$

**SOLUTION**

$$4\frac{53}{100} - \underline{4.53, \text{Four point five three.}}$$

Problem Set 37 | Q 4 | Page 53

**Write the following mixed fraction in decimal form and read them aloud.**

$$\frac{78}{100}$$

**SOLUTION**

$$\frac{78}{100} - \underline{0.78, \text{Zero point seven eight.}}$$

Problem Set 37 | Q 5 | Page 53

**Write the following mixed fraction in decimal form and read them aloud.**

$$\frac{5}{100}$$

**SOLUTION**

$$\frac{5}{100} - \underline{0.05, \text{Zero point zero five.}}$$

Write the following mixed fraction in decimal form and read them aloud.

$$\frac{5}{10}$$

**SOLUTION**

$$\frac{5}{10} - \underline{0.5, \text{Zero point five.}}$$

Write the following mixed fraction in decimal form and read them aloud.

$$\frac{2}{10}$$

**SOLUTION**

$$\frac{2}{10} - \underline{0.2, \text{Zero points two.}}$$

Write the following mixed fraction in decimal form and read them aloud.

$$\frac{20}{100}$$

**SOLUTION**

$$\frac{20}{100} - \underline{0.20, \text{Zero point two zero.}}$$

**PROBLEM SET 38 [PAGE 54]**

Read the decimal fraction and write down the place value of the digit.

6.13

**SOLUTION****6.13**

Six-point one three.

Here 6 is in the units place. Hence, its place value is  $6 \times 1 = 6$

1 is in the tenths place. Hence, its place value is  $1 \times \frac{1}{10} = 0.1$

3 is in the hundredths place. Its place value is  $3 \times \frac{1}{100} = 0.03$ .

**Problem Set 38 | Q 2 | Page 54**

Read the decimal fraction and write down the place value of the digit.  
48.84

**SOLUTION****48.84**

Forty eight point eight four.

Place value of 4 is  $4 \times 10 = 40$  and of 8, it is  $8 \times 1 = 8$ .

Place value of 8 is  $8 \times \frac{1}{10} = \frac{8}{10} = 0.8$  and

Place value of 4 is  $4 \times \frac{1}{100} = \frac{4}{100} = 0.04$ .

**Problem Set 38 | Q 3 | Page 54**

Read the decimal fraction and write down the place value of the digit.  
72.05

**SOLUTION****72.05**

Reading - Seventy two point zero five.

digit	7	2	0	5
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<b>Place name</b>	Tens	Units	Tenth	Hundredth
<b>Place value</b>	70	2	0	0.05

### Problem Set 38 | Q 4 | Page 54

Read the decimal fraction and write down the place value of the digit.

3.4

#### **SOLUTION**

3.4

Reading - Three-point four.

<b>Digit</b>	3	4
<b>Place name</b>	Units	Tenth
<b>Place value</b>	3	0.4

### Problem Set 38 | Q 5 | Page 54

Read the decimal fraction and write down the place value of the digit.

0.59

#### **SOLUTION**

0.59

Reading - Zero point five nine.

<b>Digits</b>	0	5	9
<b>Place name</b>	Units	Tenth	Hundredth
<b>Place value</b>	0	0.5	0.09

### **PROBLEM SET 39 [PAGE 55]**

#### Problem Set 39 | Q 1.1 | Page 55

Write how many rupees and how many paise.

₹ 58.43

#### **SOLUTION**

₹ 58.43 - 58 rupees 43 paise.

#### Problem Set 39 | Q 1.2 | Page 55

Write how many rupees and how many paise.

₹ 9.30

**SOLUTION**

₹ 9.30 - 9 rupees 30 paise.

**Problem Set 39 | Q 1.3 | Page 55**

Write how many rupees and how many paise.

₹ 2.30

**SOLUTION**

₹ 2.30 - 2 rupees 30 paise.

**Problem Set 39 | Q 1.4 | Page 55**

Write how many rupees and how many paise.

₹ 2.3

**SOLUTION**

₹ 2.3 - 2 rupees 30 paise.

**Problem Set 39 | Q 2.1 | Page 55**

Write how many rupees in decimal form.

6 rupees 25 paise

**SOLUTION**

6 rupees 25 paise - ₹ 6.25

**Problem Set 39 | Q 2.2 | Page 55**

Write how many rupees in decimal form.

15 rupees 70 paise

**SOLUTION**

15 rupees 70 paise - ₹ 15.70

**Problem Set 39 | Q 2.3 | Page 55**

Write how many rupees in decimal form.

8 rupees 5 paise

**SOLUTION**

8 rupees 5 paise - ₹ 8.05

**Problem Set 39 | Q 2.4 | Page 55**

Write how many rupees in decimal form.

22 rupees 4 paise

**SOLUTION**

22 rupees 4 paise - ₹ 22.04.

**Problem Set 39 | Q 2.5 | Page 55**

Write how many rupees in decimal form.

720 paise

**SOLUTION**

720 paise - ₹ 7.20

**Problem Set 39 | Q 3.1 | Page 55**

Write about how many metres and how many centimetres.

58.75 m

**SOLUTION**

58.75 m - 58 m 75 cm.

**Problem Set 39 | Q 3.2 | Page 55**

Write about how many metres and how many centimetres.

9.30 m

**SOLUTION**

9.30 m - 9 m 30 cm.

**Problem Set 39 | Q 3.3 | Page 55**

Write about how many metres and how many centimetres.

0.30 m

**SOLUTION**

0.30 m - 30 cm.

**Problem Set 39 | Q 3.4 | Page 55**

Write about how many metres and how many centimetres.

0.3 m

**SOLUTION**

0.3 m - 30 cm.

**Problem Set 39 | Q 3.5 | Page 55**

Write about how many metres and how many centimetres.

1.62 m

**SOLUTION**

1.62 m - 1 m 62 cm.



**Problem Set 39 | Q 3.6 | Page 55**

**Write about how many metres and how many centimetres.**

91.4 m

**SOLUTION**

91.4 m - 91 cm 40 cm.

**Problem Set 39 | Q 3.7 | Page 55**

**Write about how many metres and how many centimetres.**

7.02 m

**SOLUTION**

7.02 m - 7 m 2 cm.

**Problem Set 39 | Q 3.8 | Page 55**

**Write about how many metres and how many centimetres.**

0.09 m

**SOLUTION**

0.09 m - 9 cm.

**Problem Set 39 | Q 4.1 | Page 55**

**Write how many metres in decimal form.**

1 m 50 cm

**SOLUTION**

1 m 50 cm - 1.5 m

**Problem Set 39 | Q 4.3 | Page 55**

**Write how many metres in decimal form.**

50 m 4 cm

**SOLUTION**

50 m 4 cm - 50.04 m

**Problem Set 39 | Q 4.4 | Page 55**

**Write how many metres in decimal form.**

734 cm

**SOLUTION**

734 cm - 7.34 m

**Problem Set 39 | Q 4.5 | Page 55**

**Write how many metres in decimal form.**

10 cm

**SOLUTION**

10 cm - 0.1 m

**Problem Set 39 | Q 5.1 | Page 55**

Write how many centimetres and how many millimetres.

6.9 cm

**SOLUTION**

6.9 cm - 6 cm 9 mm.

**Problem Set 39 | Q 5.2 | Page 55**

Write how many centimetres and how many millimetres.

20.4 cm

**SOLUTION**

20.4 cm - 20 cm 4 mm.

**Problem Set 39 | Q 5.3 | Page 55**

Write how many centimetres and how many millimetres.

0.8 cm

**SOLUTION**

0.8 cm - 8 mm.

**Problem Set 39 | Q 5.4 | Page 55**

Write how many centimetres and how many millimetres.

0.5 cm

**SOLUTION**

0.5 cm - 5 mm.

**Problem Set 39 | Q 6.1 | Page 55**

Write how many centimetres in decimal form.

7 cm 1 mm

**SOLUTION**

7 cm 1 mm - 7.1 cm

**Problem Set 39 | Q 6.2 | Page 55**

Write how many centimetres in decimal form.

16 mm

**SOLUTION**

16 mm - 1.6 cm

**Problem Set 39 | Q 6.3 | Page 55**

**Write how many centimetres in decimal form.**

144 mm

**SOLUTION**

144 mm - 14.4 cm

**Problem Set 39 | Q 6.4 | Page 55**

**Write how many centimetres in decimal form.**

8 mm

**SOLUTION**

8 mm - 0.8 cm

**PROBLEM SET 40 [PAGE 56]**

**Problem Set 40 | Q 1 | Page 56**

**Write the following fraction as a decimal fraction.**

Two and a half

**SOLUTION**

$$\text{Two and a half} = 2\frac{1}{2} = 2.5 = 2.50$$

**Problem Set 40 | Q 2 | Page 56**

**Write the following fraction as a decimal fraction.**

Two and a quarter

**SOLUTION**

$$\text{Two and a quarter} = 2\frac{1}{4} = 2.25.$$

**Problem Set 40 | Q 3 | Page 56**

**Write the following fraction as a decimal fraction.**

Two and three quarters

**SOLUTION**

$$\text{Two and three quarters} = 2\frac{3}{4} = 2.75$$

**Problem Set 40 | Q 4 | Page 56**

**Write the following fraction as a decimal fraction.**

Ten and a half

**SOLUTION**

$$\text{Ten and a half} = 10\frac{1}{2} = 10.5 = 10.50$$

**Problem Set 40 | Q 5 | Page 56**

**Write the following fraction as a decimal fraction.**

Fourteen and three quarters

**SOLUTION**

$$\text{Fourteen and three quarters} = 14\frac{3}{4} = 14.75$$

**Problem Set 40 | Q 6 | Page 56**

**Write the following fraction as a decimal fraction.**

Sixteen and a quarter

**SOLUTION**

$$\text{Sixteen and a quarter} = 16\frac{1}{4} = 16.25$$

**Problem Set 40 | Q 7 | Page 56**

**Write the following fraction as a decimal fraction.**

Twenty-eight and a half

**SOLUTION**

$$\text{Twenty-eight and a half} = 28\frac{1}{2} = 28.50 = 28.5$$

**PROBLEM SET 41 [PAGE 57]****Problem Set 41 | Q 1.1 | Page 57**

**Convert the following into decimal fraction and add them.**

‘One and a half meter’ and ‘two and a half metres’.

**SOLUTION**

	1
	1.5 m
+	2.5 m
	4.0 m

**Problem Set 41 | Q 1.2 | Page 57**

**Convert the following into decimal fraction and add them.**

‘Four and three-quarter rupees’ and ‘seven and a quarter rupees’.

**SOLUTION**

$$4\frac{3}{4} \text{ and } 7\frac{1}{4}$$

$$4.75 \text{ and } 7.25$$

$$\begin{array}{r} 4.75 \\ + 7.25 \\ \hline 12.00 \text{ Rs.} \end{array}$$

**Problem Set 41 | Q 1.3 | Page 57**

**Convert the following into decimal fraction and add them.**

‘Six and a half metres’ and ‘three and three-quarter metres’.

**SOLUTION**

	1		
	6.	50	m
+	3.	75	m
	10.	25	m

**Problem Set 41 | Q 2.1 | Page 57**

$$23.4 + 87.9$$

**SOLUTION**

$$\begin{array}{r} \underline{11} \\ 23.4 \\ + 87.9 \\ \hline 111.3 \end{array}$$

**Problem Set 41 | Q 2.2 | Page 57**

$$35.74 + 816.6$$

**SOLUTION**

$$\begin{array}{r} \underline{11} \\ 35.74 \\ + 816.60 \\ \hline 852.34 \end{array}$$

**Problem Set 41 | Q 2.3 | Page 57**

$$6.95 + 74.88$$

**SOLUTION**

$$\begin{array}{r} \underline{11 \ 1} \\ 6.95 \\ + 74.88 \\ \hline 81.83 \end{array}$$

**Problem Set 41 | Q 2.4 | Page 57**

$$41.03 + 9.98$$

**SOLUTION**

$$\begin{array}{r} \underline{11 \ 1} \\ 41.03 \\ + 9.98 \\ \hline 51.01 \end{array}$$

**Problem Set 41 | Q 3.1 | Page 57**

$$51.4 \text{ cm} + 68.5 \text{ cm}$$

**SOLUTION**

$$\begin{array}{r}
 51.4 \text{ cm} \\
 + \underline{68.5} \text{ cm} \\
 \hline
 119.9 \text{ cm}
 \end{array}$$

**Problem Set 41 | Q 3.2 | Page 57**

$$94.7 \text{ m} + 1738.45 \text{ m}$$

**SOLUTION**

$$\begin{array}{r}
 1 \text{ } 11 \\
 \underline{94.70 \text{ m}} \\
 + \underline{1738.45 \text{ m}} \\
 \hline
 1833.15 \text{ m}
 \end{array}$$

**Problem Set 41 | Q 3.3 | Page 57**

$$₹ 5158.75 + ₹ 841.25$$

**SOLUTION**

$$\begin{array}{r}
 1111 \text{ } 1 \\
 ₹ 5158.75 \\
 + ₹ \underline{841.25} \\
 \hline
 ₹ 6000.00
 \end{array}$$

**PROBLEM SET 42 [PAGE 58]****Problem Set 42 | Q 1.1 | Page 58****Subtract the following:**

$$25.74 - 13.42$$

**SOLUTION**

$$\begin{array}{r}
 25.74 \\
 - \underline{13.42} \\
 \hline
 12.32
 \end{array}$$

**Problem Set 42 | Q 1.2 | Page 58****Subtract the following :**

$$206.35 - 168.22$$

**SOLUTION**

$$\begin{array}{r} 206.35 \\ - 168.22 \\ \hline 38.13 \end{array}$$

**Problem Set 42 | Q 1.3 | Page 58**

**Subtract the following :**  
 $63.4 - 31.8$

**SOLUTION**

$$\begin{array}{r} 63.4 \\ - 31.8 \\ \hline 31.6 \end{array}$$

**Problem Set 42 | Q 1.4 | Page 58**

**Subtract the following :**  
 $63.43 - 31.8$

**SOLUTION**

$$\begin{array}{r} 63.43 \\ - 31.80 \\ \hline 31.63 \end{array}$$

**Problem Set 42 | Q 1.5 | Page 58**

**Subtract the following :**  
 $63.4 - 31.83$

**SOLUTION**

$$\begin{array}{r} 63.40 \\ - 31.83 \\ \hline 31.57 \end{array}$$

**Problem Set 42 | Q 1.6 | Page 58**

**Subtract the following :**  
 $8.23 - 5.45$

**SOLUTION**

$$\begin{array}{r} 8.23 \\ - 5.45 \\ \hline 2.78 \end{array}$$

**Problem Set 42 | Q 1.7 | Page 58**



**Subtract the following :**

$$18.23 - 9.45$$

**SOLUTION**

$$\begin{array}{r} 18.23 \\ - 9.45 \\ \hline 8.78 \end{array}$$

**Problem Set 42 | Q 1.8 | Page 58**

**Subtract the following :**

$$78.03 - 41.65$$

**SOLUTION**

$$\begin{array}{r} 78.03 \\ - 41.65 \\ \hline 36.38 \end{array}$$

**Problem Set 42 | Q 2 | Page 58**

Vrinda was 1.48 m tall. After a year, her height became 1.53 m. How many centimetres did her height increase in a year?

**SOLUTION**

$$\begin{array}{r} 1.53 \text{ m became after 1 year} \\ - 1.48 \text{ m height had} \\ \hline 0.05 \text{ m height increased} \\ \therefore 5 \text{ cm height has increased in a year.} \end{array}$$