DECIMAL FRACTIONS

A number written with a decimal point is known as decimal fraction or decimal number.

Decimal number is the other way of writing fraction.

A decimal fraction is a fraction whose denominator is 10, 100, 1000 .....

Use of decimals in Measures of Length

→ MM = millimetre

→ CM = Centimetre

→ M = metre

→ Symbol of Rupee = ₹

→ $1m = 100cm \rightarrow 1cm = \frac{1}{100}m = 0.01m$

→ $10mm = 1cm \rightarrow 1mm = \frac{1}{10}cm$

→ 100 paise = 1 rupee → $1 paisa = ₹\frac{1}{100} = ₹0.01$

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Ex : 4.1

I. Read the following decimals and write them in words.

1. 0.5 → Zero point five.
2. 0.13 → Zero point one three.
3. 1.7 → One point Seven
4. 5.21 → five point

II. Write the numeral representing each of the following.

1) Zero point one-two = 0.12
2) Six point eight = 6.8
3) Ten point five = 10.5
4) Four point zero Two = 4.02
5) Six point eight four = 6.84
6) One hundred eight point zero six = 108.06

III. Fill in the blanks

1. 8 mm = 0.8 cm
2. 75 mm = 7.5 cm
3. 8 cm 5mm = 8.5 cm

4. 525 mm = 52.5 cm

IV Fill in the blanks.

1. 8cm = 0.08 m $\left(\frac{8}{100}\right)$
2. 72 cm = 0.72 m
3. 375 cm = 3.75 m
4. 4m 8cm = 4.80 m
5. 15m 6cm = 15.06 m

V. Write in decimal fraction.

1. 75 paise = ₹ 0.75
2. 10 rupees and 25 paise = ₹ 10.25
3. 870 paise = ₹ 8.70
4. 782 rupees and ten paise = ₹ 782.10
5. 2050 paise = ₹ 20.50

Exc 4.2

I Write the following fractions as decimal fractions.

1. $\frac{8}{10} \rightarrow 0.8$
2. $\frac{7}{10} \rightarrow 0.7$
7. $\frac{7}{100} \rightarrow 0.07$
8. $\frac{72}{100} \rightarrow 0.72$

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3. $\frac{6}{10} \Rightarrow 0.6$

4. $\frac{16}{10} \Rightarrow 1.6$

5. $\frac{42}{10} \Rightarrow 4.2$

6. $\frac{83}{10} \Rightarrow 8.3$

9) $\frac{861}{100} \Rightarrow 8.61$

10) $\frac{162}{10} \Rightarrow 16.2$

11) $\frac{141}{100} \Rightarrow 1.41$

12) $\frac{1461}{100} \Rightarrow 14.61$

13. $\frac{1}{2} \Rightarrow 0.5$

$2\overline{)10}\ 0.5$, -10, 00

14) $\frac{3}{4} = 0.75$

$4\overline{)30}\ 0.75$, -28, 20, -20, 00

11 Write the following decimal fractions as fractions:

1) $0.7 \Rightarrow \frac{7}{10}$

2) $0.02 = \frac{2}{100}$

3) $3.8 = 3\frac{8}{10}$

4) $14.5 = 14\frac{5}{10}$

5) $0.56 = \frac{56}{100}$

6) $8.03 = 8\frac{3}{100}$

7) $14.57 = 14\frac{57}{100}$

8) $85.4 = 85\frac{4}{10}$

9) $147.5 = 147\frac{5}{10}$

10) $8.5 = 8\frac{5}{10}$

11) $85.61 = 85\frac{61}{100}$

12) $6.84 = 6\frac{84}{100}$