

Chapter- 10

DECIMAL FRACTIONS

WORKSHEET

1. Fill in the blanks :

- a. A decimal fraction is a fraction whose denominator is 10 or multiple of 10.
- b. $\frac{133}{10}$ can be written as 13.3 in decimal.
- c. In 1265.356, .356 is the decimal part.
- d. A decimal point separates a whole number from a decimal fraction.
- e. If two decimal fraction have unequal number of decimal places, they are called unlike decimal fractions.
- f. Rounding off 9.563 to the nearest hundredths, we get 9.56.
- g. Two fifteenth is the number name for $\frac{2}{15}$.
- h. When multiplying a decimal number by 100 the decimal point will move to two places right.
- i. $0.3269 \times 1000 = \underline{326.9}$.
- j. If $245 \times 21 = 5145$, then $24.5 \times 21 = \underline{514.5}$.

2. Do as directed :

- a) Arrange in ascending order using $>$ or $<$: 12.02, 21.12, 20.12

Ans. $12.02 < 20.12 < 21.12$

- b) Write in expanded form: 1253.236

Ans. $1000 + 200 + 50 + 3 + 0.2 + 0.03 + 0.006$

- c) Convert to decimal: $\frac{17}{25}$

Ans. 0.68

d) Arrange in descending order: 36.23, 56.20, 36.02

Ans. $56.20 > 36.23 > 36.02$

e) Convert to fraction: 9.23

Ans. $\frac{923}{100}$

3. Solve as per the given instructions:

a. Add these: 10.1, 100.01, 11.11, 101.011

Ans.

$$\begin{array}{r}
 011.110 \\
 +101.011 \\
 010.100 \\
 100.010 \\
 \hline
 222.231
 \end{array}$$

b. How much should be subtracted from 1200 to get 1050.36?

Ans.

$$\begin{array}{r}
 1200.00 \\
 -1050.36 \\
 \hline
 149.64
 \end{array}$$

c. Simplify $2000 - 236.45 - 589.963 + 0.3659$

Ans. $2000 - 236.45 - 589.963 + 0.3659$

$$\begin{array}{r}
 589.963 \\
 +236.45 \\
 \hline
 826.413
 \end{array}$$

$$\begin{array}{r}
 2000.0000 \\
 -236.4500 \\
 -589.9630 \\
 +0.3659 \\
 \hline
 2173.9529
 \end{array}$$

$$\begin{array}{r}
 3000.3659 - 3 \\
 -826.413 \\
 \hline
 2173.9529
 \end{array}$$

d. Find the value : 3.456×3.65

Ans.

$$\begin{array}{r}
 3456 \\
 \times 365 \\
 \hline
 17080 \\
 20736 \\
 \hline
 12614.40
 \end{array}$$

e. Divide: $51.2 \div 5000$

Ans.

$$\begin{array}{r}
 10368 \\
 \hline
 12614.40
 \end{array}$$

$$\begin{array}{r}
 102.4 \\
 5 \overline{) 512} \\
 \underline{5} \\
 01 \\
 \underline{00} \\
 12 \\
 \underline{10} \\
 20
 \end{array}$$

$$\frac{51.2}{5000}$$

$$\begin{aligned}
 51.2 \div 5000 &= \frac{512}{10} \times \frac{1}{5000} = \frac{512}{50000} \\
 &= \frac{512}{5 \times 10000} \\
 &= \frac{102.4}{10000} \\
 &= 0.01024
 \end{aligned}$$