

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 9.57.
- g. Two fifteenth is the number name for 2215.
- h. When multiplying a decimal number by 100 the decimal point will move to two places right.
- i. $0.3269 \times 1000 =$ 326.9.
- j. If $245 \times 21 = 5145$, then $24.5 \times 21 =$ 514.2.

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. $1000,000 + 200,000 + 50,000 + 3000 + 200 + 30 + 6$

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

Ans. $\frac{17}{25} = \frac{17 \times 4}{25 \times 4} = \frac{68}{100} = 0.68$

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. $9.23 = \frac{923}{100}$

3. Solve as per the given instructions:

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

Ans.

$$\begin{array}{r} 10.100 \\ 100.010 \\ 11.110 \\ + 101.011 \\ \hline 222.231 \end{array}$$

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

Ans.

$$\begin{array}{r} 1200.00 \\ - 1050.36 \\ \hline 0149.64 \end{array}$$

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

Ans.

$$\begin{array}{r} 2000.0000 \\ + 0.3659 \\ \hline 2000.3659 \end{array}$$

$$\begin{array}{r} 1991.13 \\ 2000.3659 \\ - 236.4500 \\ \hline 1763.9159 \end{array}$$

$$\begin{array}{r} 615121811 \\ 1763.9159 \\ - 589.9630 \\ \hline 1173.9529 \end{array}$$

d. Find the value : 3.456×3.65

Ans.

$$\begin{array}{r}
 \begin{array}{cccc}
 & 1 & 1 & 1 \\
 2 & 3 & 3 & \\
 3.456 & & & \\
 \times 3.65 & & & \\
 \hline
 17280 & & & \\
 207360 & & & \\
 + 1036800 & & & \\
 \hline
 1261440 & & &
 \end{array}
 \end{array}$$

e. Divide : $51.2 \div 5000$

Ans.

$$\begin{array}{r}
 \begin{array}{r}
 0.01024 \\
 \hline
 5000 \overline{) 51.20} \\
 \underline{5000} \\
 12000 \\
 \underline{10000} \\
 20000 \\
 \underline{20000} \\
 0
 \end{array}
 \end{array}$$
