

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 1000 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 2.15.
- h. When multiplying a decimal number by 100 the decimal point will move to 2 places right.
- i. $0.3269 \times 1000 =$ 326.9.
- j. If $245 \times 21 = 5145$, then $24.5 \times 21 =$ 514.5.

2. Do as directed :

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

Ans. 21.12, 12.02, 20.12

- b) Write in expanded form: 1253.236

Ans. ~~125~~ $1000 + 200 + 50 + 3 + \frac{2}{100} + \frac{3}{10} + 6$

- 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. 36.02 , 36.23 , 56.20

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. ~~10.1~~

$$\begin{array}{r} 100.01 \\ + 101.011 \\ + 11.11 \\ + 10.1 \\ \hline 222.231 \end{array}$$

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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. ~~163.8529~~

$$\begin{array}{r} 2000 \\ + 0.3659 \\ \hline 2000.3659 \end{array}$$

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

$$\begin{array}{r} 2000.3659 \\ - 826.413 \\ \hline 1173.9529 \end{array}$$

d. Find the value : 3.456×3.65

Ans.

$$\begin{array}{r} \overset{2}{3} \cdot \overset{2}{4}\overset{3}{5}\overset{0}{6} \\ \times \quad \quad \quad \overset{1}{3}\overset{1}{.}\overset{2}{6}\overset{5}{5} \\ \hline 17280 \\ +20736 \\ \hline 224640 \end{array}$$

e. Divide : $51.2 \div 5000$

Ans. $\frac{51.2}{5000} = \frac{51.2}{5 \times 1000} = \frac{10.24}{1000} = 0.01024$