

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 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 2 places right.
- i. $0.3269 \times 1000 =$ 326.9.
- j. If $245 \times 21 = 5145$, then $24.5 \times 21 =$ $\frac{2}{10} \times 514.5$.

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. = 1 thousand + 2 hundreds + 5 tens + 3 ones + 2 tenths
+ 3 hundredths + 6 thousandths

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

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

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. $9.23 = \frac{923}{100}$
 $= 9\frac{23}{100}$

$$\begin{array}{r} 9 \\ 100 \overline{) 923} \\ \underline{-900} \\ 23 \end{array}$$

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.

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

So, 149.64 should be subtracted.

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

Ans.

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

$$\begin{array}{r} 236.450 \\ + 589.963 \\ \hline 826.413 \end{array}$$

$$\begin{array}{r} 2000.3659 \\ - 826.4130 \\ \hline 1173.9529 \end{array}$$

$$\begin{array}{r} \textcircled{0} \quad \textcircled{0} \quad \textcircled{6} \\ 3.456 \\ 3.65 \end{array}$$

d. Find the value : 3.456×3.65

Ans.

$$\begin{array}{r} 17.280 \\ 207.36 \times \\ 1036.8 \times \times \\ \hline 12.61440 \end{array}$$

e. Divide : $51.2 \div 5000$ Ans. $51.2 \div 5000$

$$= \frac{51.2 \times 2}{5000 \times 2}$$

$$= \frac{102.4}{10000}$$

$$= 0.01024$$

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