

Chapter - 10

(Worksheet) Decimal Fractions

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 $1265.\overset{356}{\text{^}}$, 356 is the decimal part.
Point

d) A decimal separates a whole number from a decimal fraction.

e) If two decimal fraction have unequal number of decimal places they are called Unlike decimal fraction.

f) Rounding off 9.563 to 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) $0.3269 \times 1000 = 326.9$

j) If $245 \times 21 = 5145$, then $24.5 \times 21 = \underline{\underline{514.5}}$

2. Do as directed.

a) Arrange in ascending order

using $>$ or $<$: $10.2, 21.12, 20.12$

Ans - $10.2 < 20.12 < 21.12$

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

d) Arrange in descending order:

$36.23, 56.20, 36.02$

$\rightarrow 56.20 > 36.23 > 36.02$

Q) Convert to fraction: 9.23

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

3. Solve as per the given instruction

a) Add these: $10.1, 100.01, 11.11,$

Ans

$$\begin{array}{r} 101.011 \\ 100.01 \\ 101.011 \\ + 11.11 \\ \hline 10.1 \\ \hline 222.2310 \end{array}$$

b) How much should be subtracted

from 1200 to get 1050.36 ?

Ans-

$$\begin{array}{r} 1999. \\ - 1200.0000 \\ \hline 1050.36 \\ \hline 0149.64 \end{array}$$

c) Simplify $2000 - 236.45 - 589.963$

Ans-

$$\begin{array}{r} 1999.999 \\ - 2000.0000 \\ \hline 0000.3659 \\ + 1999.6941 \\ \hline 2000 \\ + 0000.3659 \\ \hline 2000.3659 \end{array}$$
$$\begin{array}{r} 0000 \\ 236.450 \\ + 589.963 \\ \hline 826.413 \end{array}$$
$$\begin{array}{r} 1999.13 \\ - 2000.3659 \\ \hline - 826.4130 \\ \hline 1173.9529 \end{array}$$

d) Find the value: 3.456×3.65

Ans -

$$\begin{array}{r}
 \textcircled{2} \textcircled{2} \textcircled{3} \\
 3456 \\
 \times 365 \\
 \hline
 17280 \\
 \times
 \end{array}
 \qquad
 \begin{array}{r}
 \textcircled{2} \textcircled{3} \textcircled{3} \\
 3956 \\
 \times 365 \\
 \hline
 237280 \\
 +11736 \times \\
 \hline
 134640
 \end{array}$$

e) Divide: $51.2 \div 5000$

Ans -

$$\begin{array}{r}
 512 \\
 \hline
 5000
 \end{array}
 =
 \begin{array}{r}
 512 \\
 10 \\
 \hline
 5000
 \end{array}
 =
 \begin{array}{r}
 512 \\
 10000 \\
 \hline
 5000
 \end{array}$$

$$= \frac{512}{10} \times \frac{1}{5000} = \frac{512}{50,000} = \frac{512}{5 \times 10,000}$$

$$= \frac{102.4}{10000} = 0.01024$$