

# Fractions

## Worksheet

1. Fill in the blanks.

a. Fractions with different denominators are unlike fraction.

b. A mixed number is a combination of a whole number and a proper fraction.

c. ~~A fraction greater~~

c. A fraction greater than 1 is always an improper fraction.

d) In  $\frac{17}{18}$ , the numerator is 17.

e) The lowest term of  $\frac{10}{10}$  is  $\frac{5}{5}$ .

f) ~~Five~~ Five, one fifth make a whole.

g) There are 2 halves in  $1\frac{1}{2}$ .

h) A proper fraction is always smaller than 1.

i) Fractions with the same denominator are like fractions.

j) The numbers such as half, one third, one-fourth, two fifth, two.



five sixth etc. are called fraction numbers

2. Do as directed.

a Find  $\frac{3}{5}$  of 25

Ans Solution:-

$$\frac{3}{5} \times \frac{25}{1} = \frac{15}{1}$$

b Express  $\frac{19}{2}$  as mixed number

Solution:-

$$\begin{array}{r} 9 \\ 2 \overline{) 19} \\ \underline{18} \\ 1 \end{array} = 9 \frac{1}{2}$$

< Express  $6\frac{2}{9}$  as improper fraction

Ans Solution:-

Whole number  $\times$  denominator  
+ numerator

$$= 6 \times 9 + 2 = \frac{56}{9}$$

d. Compare and put the correct symbol  $>$ ,  $<$ ,  $=$

$$\frac{3}{4} \square \frac{2}{5}$$

Ans & Solution:-

$$\frac{3}{4} \square \frac{2}{5}$$

$\frac{15}{20} < \frac{8}{20}$



e. Reduce  $\frac{18}{42}$  to its lowest term.

Solution:-

$$\frac{18}{42} = \frac{9}{21} = \frac{3}{7}$$

The lowest term of

$$\frac{18}{42} \text{ is } \frac{3}{7}$$

Solve as per the given instructions

a. Add:  $2\frac{5}{13} + \frac{7}{13} = 3\frac{9}{26}$

Solution

$$\frac{31}{13} + \frac{7}{13} + \frac{87}{26} =$$

$$\begin{array}{ccc|ccc} 13 & 13 & & 13 & & 26 \\ \hline & 1 & & 1 & & 2 \end{array} \quad \text{LCM} = 26$$

$$\begin{array}{l} 31 \times 2 = 62 \\ 13 \times 2 = 26 \end{array}$$

$$\begin{array}{l} 7 \times 1 = 7 \\ 13 \times 2 = 26 \end{array}$$

$$\begin{array}{l} 87 \times 1 = 87 \\ 26 \times 1 = 26 \end{array}$$



$$\text{Ans} = \frac{163}{26} = 6 \frac{7}{26}$$

b. Subtract  $5 \frac{7}{9}$   $9 \frac{5}{7}$

Solution

$$\begin{array}{r} \cancel{6} \frac{14}{9} \\ - 9 \frac{5}{7} \\ \hline \end{array} \quad \begin{array}{r} 52 \\ - \cancel{9} \\ \hline \end{array} \quad \begin{array}{r} 68 \\ - 7 \\ \hline \end{array}$$

$$3 \overline{) 97} \\ \underline{3 \phantom{7}} \\ 37$$

$$\text{LCM} = 63$$

$$\begin{array}{r} 52 \times 7 = 364 \\ \hline 9 \times 7 = 63 \end{array}$$

$$\begin{array}{r} 68 \times 9 = 612 \\ \hline 7 \times 9 = 63 \end{array}$$

$$\text{Ans} - \underline{364} \quad \underline{612}$$

c. Multiply:  $\frac{2}{5} \times \frac{3}{4} \times \frac{1}{2}$

Ans. Solution:—

$$\frac{\cancel{2}}{5} \times \frac{3}{\cancel{4}_2} \times \frac{1}{\cancel{2}} = \frac{3}{20}$$

d. Simplify:  $\frac{3}{5} + \frac{1}{2} = \frac{3}{4}$

Ans. Solution:—

$$2 \left[ \begin{array}{ccc} 5, & 2, & 4 \\ 5, & 1, & 2 \end{array} \right] \quad \text{LCM} = 20$$

$$\frac{3 \times 4 = 12}{5 \times 4 = 20}$$

$$\frac{1 \times 10 = 10}{2 \times 10 = 20}$$

$$\frac{3 \times 5 = 15}{4 \times 5 = 20}$$



$$\text{Ans} - \frac{15 - 12 + 10}{20} = \frac{13}{20}$$

e. A Ribbon measuring  $3\frac{1}{2}$  m is cut into 7 pieces. What is the length of each piece?

Ans. Solution:-

Total length of the ribbon -  $3\frac{1}{2}$

After dividing the ribbon into 7 pieces, pieces -

$$3\frac{1}{2} \div \frac{7}{1} =$$

$$\frac{7}{2} \div \frac{7}{1} =$$

$$\frac{*}{2} \times \frac{1}{*1} = \frac{1}{2}$$

The length of each ~~pieces~~  
pieces =  $\frac{1}{2}$