Chapter- 9

Fractions

WORKSHEET

1. **Fill in the blanks :**

a) Fractions with different denominators are unlike fractions.

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

c) A fraction greater than 1 is always a/an Improper fraction.

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

e) The lowest term of $\frac{10}{10}$ is 1.

f) Five, one-fifth make a whole .

g) There are nine halves in $4\frac{1}{2}$.

h) A proper fraction is always less than 1.

i) Fractions with the same denominator are Like fractions.

j) The numbers such as half, one-third, one-fourth, two-fifth, five-sixth etc. are called fractional numbers.

2. **Do as directed :**

a) Find : $\frac{3}{5}$ of 25.

Ans. $\frac{3}{\cancel{5}_1} \times \frac{\cancel{25}^5}{1} = 15$

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

Ans.

Formula = $Q\frac{R}{D} = 9\frac{1}{2}$ Ans.

$$\begin{array}{r} 9 \\ 2\overline{)19} \\ -18 \\ \hline 01 \end{array}$$

c) Express $6\frac{2}{9}$ as improper fraction.

Ans.

Formula = denominator X whole no. + numerator

= 56 Ans.

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \\ +\ 2 \\ \hline 56 \end{array}$$

d) Compare and put the correct symbol. (< , > or =)

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

Ans. $\frac{3}{4} > \frac{2}{5}$

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

Ans. $\frac{18}{42} = \frac{3}{7}$ Ans.

3. **Solve as per the given instructions:**

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

Ans. $2\frac{5}{13} + \frac{7}{13} + 3\frac{9}{26} =$

$\frac{31}{13} + \frac{7}{13} + \frac{87}{26} = \frac{(31\times2)+(7\times2)+(87\times1)}{26} = \frac{62+14+87}{26} = 6\frac{7}{26}$

b) Subtract $5\frac{7}{9}$ from $9\frac{5}{7}$

Ans. $9\frac{5}{7} - 5\frac{7}{9} =$

$\frac{68}{7} - \frac{52}{9} = \frac{(68\times9)-(52\times7)}{63} = \frac{596-364}{63} = 3\frac{43}{63}$

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

Ans. $\frac{2}{5} \times \frac{3}{4} \times \frac{1}{2} = \frac{2\times3\times1}{5\times4\times2} = \frac{6}{40}$ Ans.

d) Simplify : $\frac{3}{5} + \frac{1}{2} - \frac{3}{4}$

Ans. $\frac{3}{5} + \frac{1}{2} - \frac{3}{4} = \frac{(3\times4) + (1\times10) - (3\times5)}{20}$

$= \frac{12 + 10 - 15}{20} = \frac{7}{20}$

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

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

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

Hence, the length of each piece is $\frac{1}{2}$.

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