

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) 5, one-fifth make a whole.
- g) There are 9 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 Rational numbers.

2. Do as directed :

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

Ans. $\frac{25}{1} \times \frac{3}{5} = \frac{125}{3} = 41\frac{2}{3}$

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

Ans. $\frac{2 \overline{)19}}{18} = 9\frac{1}{2}$

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

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

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

$$\begin{aligned} \text{Ans. } & \frac{3 \times 4}{5 \times 4} + \frac{1 \times 10}{2 \times 10} - \frac{3 \times 5}{4 \times 5} \\ & = \frac{12}{20} + \frac{10}{20} - \frac{15}{20} \\ & = \frac{22}{20} - \frac{15}{20} = \frac{7}{20} \end{aligned}$$

$$\begin{array}{r} 2 \overline{) 5, 2, 4} \\ 5 \overline{) 5, 1, 2} \\ 2 \overline{) 1, 1, 2} \\ 1, 1, 1 \\ \text{L.C.M.} = 20 \end{array}$$

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

Ans. A ribbon measuring $= 3\frac{1}{2} = \frac{7}{2}$

Pieces cutted = 7

$$\text{Length of each piece} = \frac{7}{2} \div 7 = \frac{7}{2} \times \frac{1}{7} = \frac{1}{2} \text{ m}$$

Hence, The length of each piece ribbon is $\frac{1}{2}$ m.

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