

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 fractional numbers.

2. Do as directed :

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

Ans.

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

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

Ans.

$$\frac{19}{2} = 9\frac{1}{2}$$

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

Ans.

$$\frac{56}{9}$$

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

$$\frac{3}{4} \text{ (7) } \frac{2}{5}$$

Ans.

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

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

Ans.

$$\frac{18}{42} = \frac{18 \div 6}{42 \div 6} = \frac{3}{7}$$

3. Solve as per the given instructions:

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

Ans.

$$\frac{31}{13} + \frac{7}{13} + \frac{117}{26} \quad \text{LCM} = 13, 26, 13 = 26$$

$$\frac{31 \times 2 + 7 \times 2 + 117}{26} = \frac{193}{26}$$

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

Ans.

$$9\frac{5}{7} - 5\frac{7}{9} = \frac{68}{7} - \frac{52}{9} \quad \text{LCM } 70 \div 49 = 63$$

$$\frac{68 \times 9 - 52 \times 7}{63} = \frac{636 - 364}{63} = \frac{272}{63}$$

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

Ans.

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

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

$$\text{LCM} = 20$$

Ans.

$$\frac{3 \times 4 + 1 \times 10 - 3 \times 5}{12 + 10 - 15} = \frac{22}{20 - 15}$$

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

Ans.

$$3\frac{1}{2} = 3.5 \text{ m}$$

7 pieces so each piece

$$3.5 \div 7 = 0.5 \text{ m}$$
