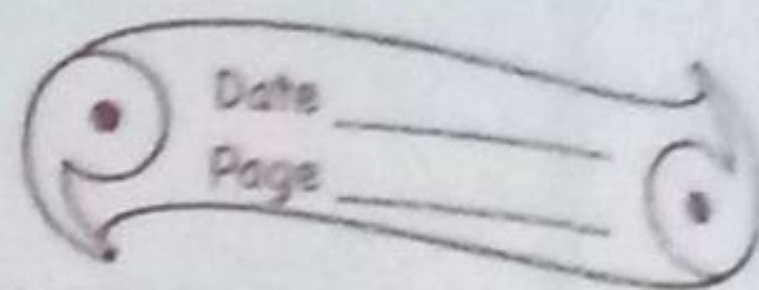


## Chapter-9

# Fractions

## Worksheet



1. Fill in the blanks  $\rightarrow$

(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  $4\frac{1}{2}$ .

(b) 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 are called proper numbers.

2. Do as directed :-

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

$$\text{Ans} - \frac{25 \times 3}{5} = 5 \times 3 = 15$$

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

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

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

$$6\frac{2}{9} = \frac{6 \times 9 + 2}{9} = \frac{54 + 2}{9} = \frac{56}{9}$$

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

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

Ans-  $\frac{3}{4} > \frac{2}{5} \quad \because \quad 5 \times 3 > 4 \times 2 \quad \therefore$

$15 > 8$  So,  $\frac{3}{4}$  is greater than  $\frac{2}{5}$

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

$$\frac{18}{42} = \frac{18}{42} = \frac{\cancel{2} \times \cancel{3} \times 3}{\cancel{2} \times \cancel{3} \times 7} = \frac{3}{7}$$

3. Solve as per the given instructions

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

$$= \frac{31}{13} + \frac{7}{13} + \frac{3 \times 26 + 9}{26} = \frac{31 \times 2 + 7 \times 2 + 78 + 9}{26}$$

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

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

$$= \frac{9 \times 7 + 5}{7} - \frac{5 \times 9 + 7}{9} = \frac{68}{63} - \frac{52}{63}$$

$$= \frac{16}{63}$$

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

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

Q) simplify:  $\frac{3}{5} + \frac{1}{2} - \frac{3}{4}$

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

$$= \frac{22 - 15}{20} = \frac{7}{20}$$

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

The length of ribbon =  $3\frac{1}{2}$   
By making 7 pieces =  $3\frac{1}{2} \div 7$

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

So, Each piece length is  $\frac{1}{2}$  m.  
Ans