## Chapter- 9

## **Fractions**

WORKSHEET

## 1. Fill in the blanks:

- a) Fractions with different denominators are  $\underline{unl_i^*k\ell}$  fractions.
- b) A mix ed 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 \_\_\_\_\_\_
- e) The lowest term of  $\frac{10}{10}$  is  $\frac{1}{10}$
- f) \_\_\_\_\_\_\_, one-fifth make a whole
- g) There are \_\_on2\_\_halves in  $4\frac{1}{2}$ .
- h) A proper fraction is always less than 1.
- i) Fractions with the same denominator are \_\_\_\_\_\_\_ i ke
- 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.  $\frac{3}{15} \times \frac{5}{1} = 15$   
b) Express  $\frac{19}{2}$  as mixed number.

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

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

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

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

Ans. 
$$9.9.5$$
  $9.50$   $9$ 

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

13 [13,13,26]

3. Solve as per the given instructions:

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

Ans. 
$$\frac{31}{13} + \frac{7}{13} + \frac{87}{26}$$

Ans. 
$$\frac{52}{9} - \frac{68}{7}$$

Ans. 
$$\frac{52}{9} - \frac{68}{7} = \frac{364 - 612}{63} = \frac{248}{63} + \frac{1}{1} = \frac{7}{1}$$

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: 
$$\frac{3}{5} + \frac{1}{7} \cdot \frac{3}{4}$$

Ans. 
$$\frac{3}{5} + \frac{1}{2} - \frac{3}{4} = \frac{93x9 + 1x10 - 3x5}{20}$$
  
 $\frac{3}{5} + \frac{1}{2} - \frac{3}{4} = \frac{93x9 + 1x10 - 3x5}{20} = \frac{7}{20}$ 

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

Ans. A nibbon measuring 
$$dis=3\frac{1}{2}=\frac{7}{2}$$
 in   
Cut into pieces  $is=7$   
Length of each piece  $=\frac{7}{2}=\frac{1}{7}$ 

Hence, the length of each piece is 1 m.