(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 $=$)

$$\frac{3}{4} \enspace \bigcirc{>} \enspace \frac{2}{5} \enspace \circ$$

Ans- $\frac{3}{4} \begin{matrix} >2 \\ >5 \end{matrix} \div 5 \times 3 \approx 4 \times 2 =$

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

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

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

1) A __Proper__ fraction is always less than 1:

(i) Fractions with the same denominator are __Like__ fractions.

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

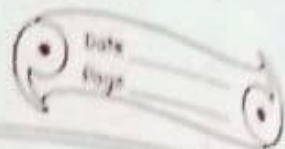2. Do as directed :-

ⓐ Find : $\frac{3}{5}$ of 25

Ans- $\overset{5}{\cancel{25}} \times \frac{3}{\underset{1}{\cancel{5}}} = 5 \times 3 = 15$

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

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

Chapter 9

Fractions

Worksheet

1. Fill in the blanks :->

(a) Fractions with different denomina-
one __unlike__ fractions.

(b) A __Mixed__ number is a combina-
of a whole number and a proper
fraction.

(c) A fraction greater than 1 ie always
a/an __Improper__ fraction.

(d) in $\frac{17}{18}$, the numerator is

__17__

(e) The lowest term of $\frac{10}{10}$ ie

__1__

(f) __5__, one fifth make a whole.

(g) There are __9__ halves in $4\frac{1}{2}$

8. Solve as per the given instructions

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

$= \frac{31}{13} + \frac{7}{13} + \frac{3\times26+9}{26} = \frac{31\times2 + 7\times2 + 78 + 9}{26}$

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

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

$= \frac{9\times7+5}{7} - \frac{5\times9+7}{9} = \frac{68-52}{63}$

$= \frac{16}{63}$

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

$= \frac{\overset{1}{\cancel{2}}}{5} \times \frac{3}{4} \times \frac{1}{2} = \frac{3\times1}{5\times4\times1} = \frac{3}{20}$

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

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

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

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

The ~~length~~ 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 pieces length is $\frac{1}{2}$ m

Ans