ATOMIC ENERGY CENTRAL SCHOOL

Class – VI FRACTIONS (Hand Out) Module 1/4

- ► Fractions represent a part of a whole. The whole may be a single or group of objects but the parts have to be equal ().
- ► Fractions have two parts:
- ▶ Numerator and the Denominator

1 Numerator represents the part of a whole.

4 ---

Denominator represents the whole

TYPES OF FRACTIONS

PROPER FRACTIONS

Proper fractions: A proper fraction is a number representing part of a whole. In a fraction the denominator shows the number of parts into which the whole is divided and the numerator shows the number of parts which have been considered. Hence in a proper fraction numerator is always less than the denominator such as $\frac{2}{5}$, $\frac{4}{7}$, $\frac{8}{11}$.

IMPROPER FRACTIONS

Improper fractions: The fractions where the numerator is bigger than the denominator are called improper fractions such as $\frac{9}{5}$, $\frac{15}{11}$, $\frac{7}{4}$.

MIXED FRACTIONS

Mixed fractions: A mixed fraction has a combination of a whole and a proper fraction such as $1\frac{3}{4}$, $5\frac{5}{6}$, $7\frac{1}{4}$.

CONVERSION OF FRACTIONS:

► Converting mixed fractions to improper fractions

Example: Express the following as improper fractions.

(a) 3 3/4 (b) 2 5/6

(a) $3 \ 3/4 = 3 + \ 3/4 = 12/4 + 3/4 = 17/4$

(b) 2.5/6 = 2+5/6 = 12/6 + 5/6 = 17/6

Converting improper fractions to mixed fractions

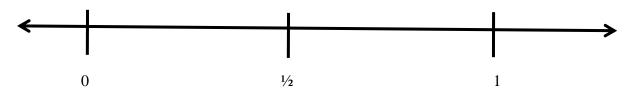
Example: Express the following as mixed fractions.

(a)18/5 (b) 15/4

5) 18 (3 4) 15 (3
15 12
3 3
18/5 =
$$3\frac{3}{5}$$
 15/4 = $3\frac{3}{4}$

REPRESENTATION OF FRACTIONS ON NUMBER LINE:

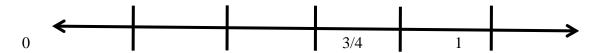
▶ Let us try to mark ½ on the number line. ½ is greater than 0 and lesser than 1. hence, we should mark it between 0 and 1. so we have to divide the space between 0 and 1 to two parts as the denominator of the number says that there are two equal parts and show 1 part as 1/2



EXAMPLE

A) represent ¾ on number line.

▶ We have to divide the space between 0 and 1 into four parts as the denominator of the number says that there are four equal parts.



Example

B)Represent $1\frac{4}{5}$ on number line.

▶ We have to divide the space between 1 and 2 to 5 parts as

(it lies between 1 & 2) the denominator of the number says that there are 5 equal parts.

