



MONTH : AUGUST

SESSION : 13

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 9

CHAPTER NAME : FRACTION

**SUB-TOPIC : FRACTIONS , CONVERSION OF IMPROPER FRACTIONS TO
MIXED FRACTIONS**

EXERCISE 9 A Q.NO.5

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable the students

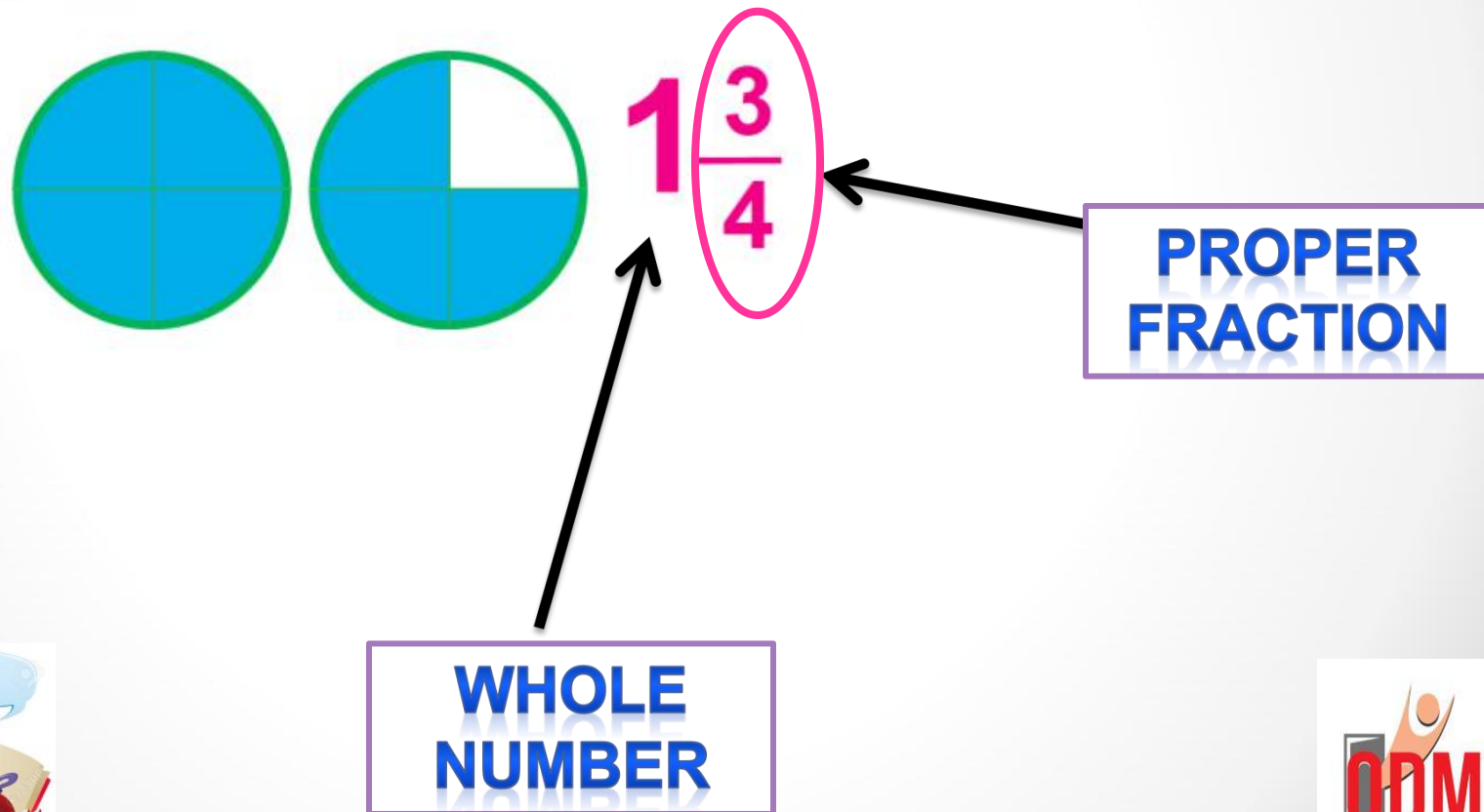
- **To convert improper fraction to mixed fractions.**
- **To compare and contrast different types of fractions.**



MIXED FRACTION



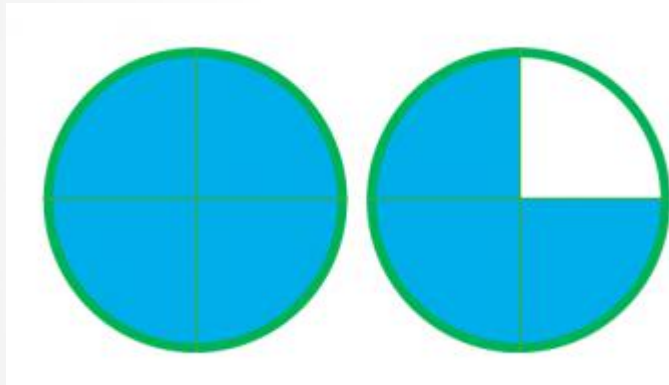
A fraction which has a **whole number** and a **proper fraction** is called mixed fraction.



IMPROPER FRACTION

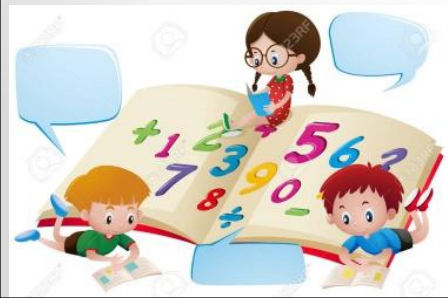


A fraction whose **numerator is greater** than the denominator is called the improper fraction.



$$\frac{7}{4}$$

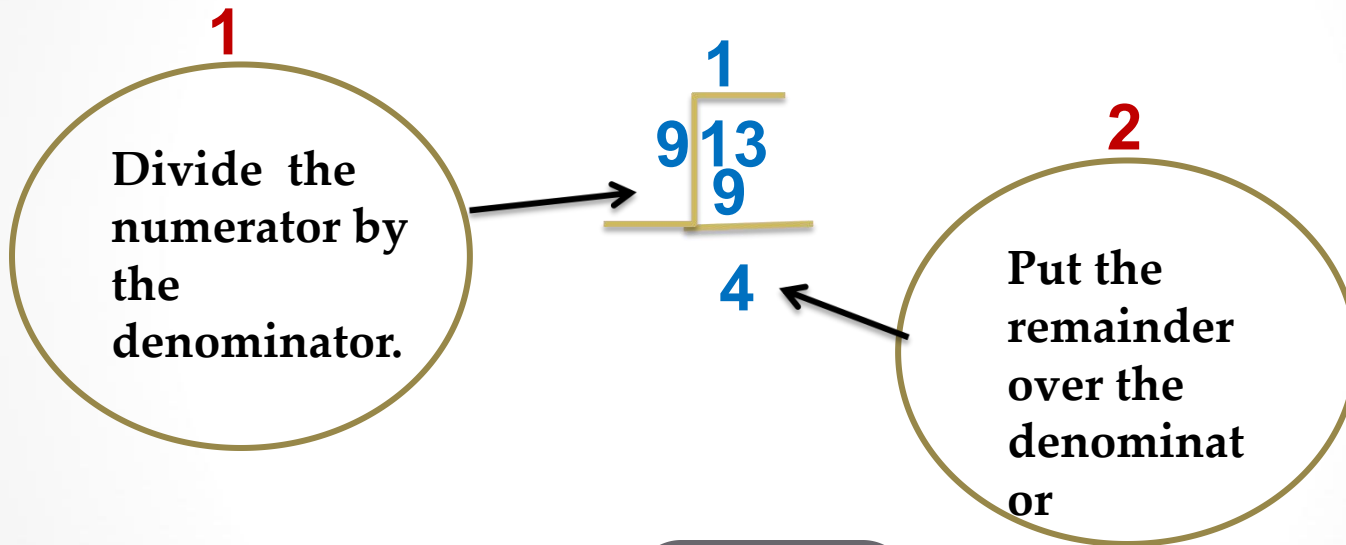
Numerator is greater than denominator



CONVERSION OF IMPROPER FRACTION TO MIXED FRACTION



$$\frac{13}{9}$$



$$\frac{13}{9} = Q \frac{R}{D} = 1 \frac{4}{9}$$

CONVERSION OF IMPROPER FRACTION TO MIXED FRACTION



EXAMPLE-1

$$\frac{45}{8} = 5 \frac{5}{8}$$

$$\frac{8 \times 5 + 5}{8}$$

OR

$$\frac{45}{8} = \text{Q} \frac{\text{R}}{\text{D}} = 5 \frac{5}{8}$$

$$\begin{array}{r} 5 \\ 8 \overline{)45} \\ \underline{40} \\ 5 \end{array}$$



CONVERSION OF IMPROPER FRACTION TO MIXED FRACTION



EXAMPLE-2

$$\frac{37}{9} = 4 \frac{1}{9}$$

$$\frac{9 \times 4 + 1}{9}$$

OR

$$\frac{37}{9} = \text{Q} \frac{\text{R}}{\text{D}} = 4 \frac{1}{9}$$

$$\begin{array}{r} 4 \\ 9 \overline{) 37} \\ \underline{36} \\ 1 \end{array}$$



CONVERSION OF IMPROPER FRACTION TO MIXED FRACTION



EXAMPLE-3

$$\frac{115}{12} = 9 \frac{7}{12}$$

$$\frac{12 \times 9 + 7}{12}$$

OR

$$\frac{115}{12} = \text{Q} \frac{\text{R}}{\text{D}} = 9 \frac{7}{12}$$

$$\begin{array}{r} 9 \\ 12 \overline{) 115} \\ \underline{108} \\ 7 \end{array}$$



EXERCISE – 9 A



5. Convert the following improper fractions into mixed numbers

$$\text{a. } \frac{21}{6} = \text{Q } \frac{\text{R}}{\text{D}} = 3 \frac{3}{6}$$

$$\text{b. } \frac{112}{6} = \text{Q } \frac{\text{R}}{\text{D}} = 18 \frac{4}{6}$$

$$\begin{array}{r} 18 \\ 6 \overline{) 112} \\ \underline{6} \\ 52 \\ \underline{48} \\ 4 \end{array}$$



EXERCISE – 9 A



5. Convert the following improper fractions into mixed numbers

$$\text{c. } \frac{123}{6} = \text{Q } \frac{\text{R}}{\text{D}} = 20 \frac{3}{6}$$

$$\begin{array}{r} 20 \\ 6 \overline{) 123} \\ \underline{12} \\ 03 \\ \underline{00} \\ 3 \end{array}$$

$$\text{d. } \frac{98}{16} = \text{Q } \frac{\text{R}}{\text{D}} = 6 \frac{2}{16}$$

$$\begin{array}{r} 6 \\ 16 \overline{) 98} \\ \underline{96} \\ 2 \end{array}$$



EXERCISE – 9 A



5. Convert the following improper fractions into mixed numbers

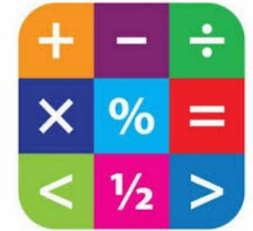
$$\text{e. } \frac{38}{4} = \text{Q } \frac{\text{R}}{\text{D}} = 9 \frac{2}{4}$$

$$\text{f. } \frac{223}{18} = \text{Q } \frac{\text{R}}{\text{D}} = 12 \frac{7}{18}$$

$$\begin{array}{r} 12 \\ 18 \overline{) 223} \\ \underline{18} \\ 43 \\ \underline{36} \\ 7 \end{array}$$



EXERCISE – 9 A

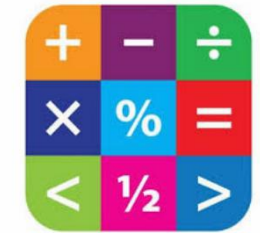


5. Convert the following improper fractions into mixed numbers

$$\text{g. } \frac{445}{15} = \text{Q } \frac{\text{R}}{\text{D}} = 29 \frac{10}{15}$$

$$\begin{array}{r} 29 \\ 15 \overline{) 445} \\ \underline{30} \\ 145 \\ \underline{135} \\ 10 \end{array}$$





**Home Assignment : Complete Exercise 9 A
Q.no. 5 in the note book.**



THANKING YOU
ODM EDUCATIONAL GROUP