Mixed Fractions

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A Mixed Fraction is a number that has:

- A whole number and
- A proper fraction (numerator < denominator)

Examples:

- $1\frac{1}{2}$ \rightarrow One whole and one-half
- $3\frac{2}{5}$ \rightarrow Three wholes and two-fifths
- $5\frac{3}{4}$ \rightarrow Five wholes and three-fourths

Conversion:

Mixed to Improper Fraction

Step:

Multiply whole number \times denominator \rightarrow Add numerator \rightarrow Keep same denominator

Example:

$$2\frac{1}{3} = \frac{2 \times 3 + 1}{3} = \frac{7}{3}$$

Improper to Mixed Fraction

Step:

Divide numerator ÷ denominator

Quotient = whole number, Remainder = numerator of the fraction

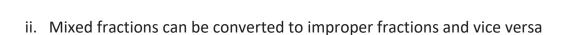
Example:

$$\frac{9}{4} = 2\frac{1}{4}$$

Properties of Mixed Fractions

i. A mixed fraction is always more than 1

Example:
$$1\frac{2}{5} > 1$$



iii. They are used in measurements like length, weight, and time

Example:
$$2\frac{1}{2}$$
 kg, $3\frac{3}{4}$ hours

v. Mixed fractions show both whole and part of a quantity

Summary:

• Mixed Fraction = Whole number + Proper Fraction

Example:
$$4\frac{1}{3}$$

• Can be changed to improper fractions for calculations