ADDING OR SUBTRACTING FRACTIONS WITH THE SAME DENOMINATOR

To add (or subtract) two fractions with the same denominators, we add (or subtract) the numerators and keep the denominators unchanged.

ExampleS:

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

$$\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$$

ADDING OR SUBTRACTING FRACTIONS WITH DIFFERENT DENOMINATORS

To add/subtract two fractions with different denominators, we first convert the fractions to equivalent fractions with the same denominators, and then we add/subtract the numerators and keep the denominators unchanged.

Examples:

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

$$\frac{3}{4} - \frac{1}{6} = \frac{9}{12} - \frac{2}{12} = \frac{7}{12}$$

To add or subtract mixed numerals, we first convert these to improper fractions.

$$6\frac{1}{3} - 4\frac{1}{2} = \frac{19}{3} - \frac{9}{2} = \frac{38}{6} - \frac{27}{6} = \frac{11}{6}$$