

Add and Subtract Fractions

To add or subtract fractions we need to look at the denominators and check if they are like or unlike

Add. $\frac{3}{8} + \frac{1}{8}$

STEP 1 Are the denominators the same? YES.

$$\begin{array}{r} \frac{3}{8} \\ + \frac{1}{8} \\ \hline \end{array}$$

STEP 2 Add the numerators. The denominators stay the same.

$$\begin{array}{r} \frac{3}{8} \quad \rightarrow \quad 3 \text{ eighths} \\ + \frac{1}{8} \quad \rightarrow \quad 1 \text{ eighths} \\ \hline \frac{4}{8} \quad \rightarrow \quad 4 \text{ eighths} \end{array}$$

STEP 3 Write the sum over the denominator. Write it in simplest form.

$$\begin{array}{r} \frac{3}{8} \\ + \frac{1}{8} \\ \hline \frac{4}{8} = \frac{1}{2} \end{array}$$

So, $\frac{3}{8} + \frac{1}{8} = \frac{1}{2}$

To subtract like fractions, subtract the numerators.

Remember, the denominators stay the same. Then write the difference over the denominator.

Examples:

A- Find the sum or difference.

$$1) \frac{1}{6} + \frac{1}{6}$$

$$2) \frac{6}{7} - \frac{4}{7}$$

$$3) \frac{3}{4} + \frac{5}{4}$$

$$4) \frac{10}{9} - \frac{7}{9}$$

$$\frac{1+1}{6}$$

9

$$\frac{6-4}{7}$$

$$\frac{3+5}{4}$$

$$\frac{10-7}{9}$$

$$\frac{2}{6} = \frac{1}{3}$$

3

$$\frac{10}{7}$$

$$\frac{8}{4} = \frac{2}{1}$$

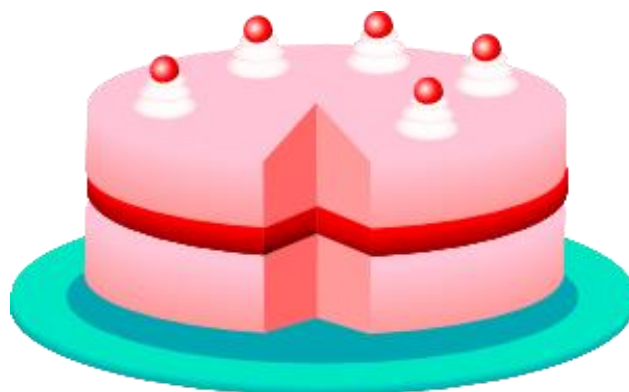
$$\frac{3}{9} = \frac{1}{3}$$

My Real Life

Samar ate $\frac{1}{4}$ of the cake, and she gave $\frac{2}{4}$. How much of the cake was eaten?

$\frac{1}{4}$

$\frac{2}{4}$



$$\frac{1}{4} + \frac{2}{4} = \frac{1+2}{4} = \frac{3}{4}$$