

Multiplying Fractions:

When multiplying fractions, we multiply across.

$$\frac{2}{5} \times \frac{6}{7} = \frac{2 \times 6}{5 \times 7} = \frac{12}{35}$$

$$\frac{1}{4} \times \frac{2}{3} = \frac{1 \times 2}{4 \times 3} = \frac{2}{12} = \text{reduces to } \frac{1}{6}$$

Dividing Fractions:

When dividing fractions, we KEEP, CHANGE, FLIP, then multiply. Below, the answer would be $4/2 = 2$

$$\begin{array}{ccc} \frac{1}{2} & \div & \frac{1}{4} \\ \text{KEEP} \downarrow & \text{CHANGE} \downarrow & \text{FLIP} \downarrow \\ \frac{1}{2} & \times & \frac{4}{1} \end{array}$$

Adding and Subtracting Fractions:

Adding and subtracting fractions requires finding the lowest common denominator if they aren't already the same. See below

$$\begin{array}{r} \frac{2 \times 4}{3 \times 4} + \frac{3 \times 3}{4 \times 3} \\ = \frac{8}{12} + \frac{9}{12} \end{array}$$

wiki How to Add and Subtract Fractions

$$\frac{1}{7} + \frac{4}{7} = \frac{5}{7}$$

$$\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$$