

Multiplying and Dividing Fractions

Multiplication of fractions is very simple, just multiply numerators and denominators

Ex.

$$\frac{1}{2} \cdot \frac{3}{4} = \frac{1 \cdot 3}{2 \cdot 4} = \frac{3}{8}$$

Ex.

$$\frac{2}{3} \cdot \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$$

Division of fractions is not much harder but has one thing important to remember. You must invert the divisor and then multiply (Flip the last guy and multiply)

Ex.

$$\frac{2}{3} \div \frac{3}{4} = \frac{2}{3} \times \frac{4}{3} = \frac{2 \cdot 4}{3 \cdot 3} = \frac{8}{9}$$

Ex.

$$\frac{15}{8} \div \frac{5}{4} = \frac{15}{8} \times \frac{4}{5} = \frac{60}{40} = \frac{3}{2}$$