

Fractions

Multiplication

The Problem:

$$\frac{3}{4} \times \frac{2}{3}$$

Step 1

$$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12}$$

First multiply the numerators together. Do the same for the denominators.

Step 2

$$\frac{6^{(\div 6)}}{12^{(\div 6)}} = \frac{1}{2}$$

To reduce the fraction to its lowest form, divide the numerator and the denominator by the same number. This works best with the highest common factor of the two numbers. If you cannot reduce both the numerator and denominator by the same number it is already in its lowest form.

Fractions

Division

The Problem:

$$\frac{2}{6} \div \frac{2}{3}$$

Flip the second fraction to change the problem from division to multiplication.

$$\frac{2}{6} \times \frac{3}{2}$$

Step 1

$$\begin{array}{r} \frac{2}{6} \times \frac{3}{2} = \frac{6}{12} \end{array}$$

First multiply the numerators together. Do the same for the denominators.

Step 2

$$\frac{6}{12} \stackrel{(\div 6)}{=} \frac{1}{2}$$

To reduce the fraction to its lowest form, divide the numerator and the denominator by the same number. This works best with the highest common factor of the two numbers. If you cannot reduce both the numerator and denominator by the same number it is already in its lowest form.

Fractions

Division by whole numbers

The Problem:

$$\frac{2}{3} \div 2$$

Step 1

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

Multiply the denominator by the whole number.

Step 2

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

Simplify the fraction to its simplest terms.