Multiplying Fractions

-When multiplying fractions, you simply multiply across.
-First, you multiply the numerators.
-Next, you multiply the denominators.
-Finally, you reduce the fraction if neccessary.

Example: $\frac{4}{5} \times \frac{2}{8} = ?$

multiply numerators
multiply denominators
$\frac{4 \times 2}{5 \times 8} = \frac{8}{40} = \frac{1}{5}$
reduce   final answer

Quick Reminder

$\frac{x}{y}$ ⟵ numerator
⟵ denominator

For each problem below, follow the steps used in the example to find your solution.
Be sure to reduce your fraction to its lowest terms.

1) $\frac{3}{6} \times \frac{3}{2} = ?$

2) $\frac{4}{7} \times \frac{5}{8} = ?$

3) $\frac{5}{10} \times \frac{2}{1} = ?$

4) $\frac{15}{17} \times \frac{6}{6} = ?$
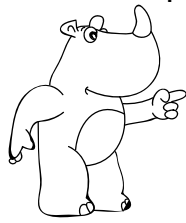
5) $\frac{20}{40} \times \frac{2}{2} = ?$

6) $\frac{2}{6} \times \frac{6}{2} = ?$

7) $\frac{5}{25} \times \frac{4}{1} = ?$

8) $\frac{9}{9} \times \frac{1}{1} = ?$

Multiplying Fractions

Multiplying fractions by a whole number is very similar to multiplying two fractions. Follow the steps below to find out how.

-First, make the whole number a fraction by putting it over 1.

-Second, multiply the top numbers, or the *numerators*.

-Next, multiply the bottom numbers, or the *denominators*.

-Last, simplify your fraction if neccessary.

Example: $\frac{2}{3}$ **x 5 = ?**

| make the whole number a fraction | $\frac{5}{1}$ | multiply the top numbers (numerators) | **2 x 5 = 10** | multiply the bottom numbers (denominators) | **3 x 1 = 3** | write your result | $\frac{10}{3}$ |

For each problem below, follow the steps used in the example to find your solution. Be sure to reduce your fraction to its lowest terms.

1) $3 \times \frac{2}{9} = ?$

2) $2 \times \frac{9}{19} = ?$

3) $2 \times \frac{2}{5} = ?$

4) $5 \times \frac{1}{7} = ?$

5) $4 \times \frac{3}{15} = ?$

6) $6 \times \frac{3}{24} = ?$

7) $1 \times \frac{5}{5} = ?$

8) $10 \times \frac{1}{16} = ?$