

Multiplying Rational Numbers

$$1.23 \times 4.6$$

$$\begin{array}{r} 1.23 \\ \times 4.6 \\ \hline 638 \\ + 4920 \\ \hline 5.558 \end{array}$$

$$32.6 \times 3.1$$

$$\begin{array}{r} 32.6 \\ \times 3.1 \\ \hline 326 \\ + 9780 \\ \hline 101.06 \end{array}$$

$$246.1 \times 4.6$$

$$\begin{array}{r} 246.1 \\ \times 4.6 \\ \hline 14766 \\ + 98440 \\ \hline 1132.06 \end{array}$$

$$12.4 \times 2.87$$

$$\begin{array}{r} 12.4 \\ \times 2.87 \\ \hline 868 \\ + 9920 \\ + 24800 \\ \hline 35.588 \end{array}$$

With Fractions...

- 1) NO common denominators needed
- 2) Whole #'s become fractions over 1
- 3) Mixed #'s become improper fractions to X
- 4) Products that are improper fractions get changed to mixed #'s
- 5) Simplify before you Multiply

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

$$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$$

$$12 \times \frac{4}{9}$$

$$+ \frac{12}{1} \times \frac{4}{9} = \frac{16}{3}$$

$$\frac{15}{4} \times \frac{21}{5} = \frac{315}{20} = \frac{63}{4}$$

$$\frac{2}{5} \times \frac{2}{3} \times \frac{1}{5} = \frac{4}{75}$$