

## Dividing Fractions by Fractions

\* KCF: Keep, Change, Flip \*

Step 1: Find the reciprocal of the divisor (number you are dividing by.)

\* Always Flip the 2<sup>nd</sup> Number! \*

Step 2: Change the ÷ Sign to a X sign.

Step 3: Multiply the Fractions.

Step 4: Simplify

Examples:

1)  $\frac{2}{3} \div \frac{1}{3} \rightarrow 2$

K C F

$\frac{2}{3} \times \frac{3}{1} \rightarrow \frac{6}{3}$

simplify

$$\begin{array}{r} 3 \overline{) 6} \\ \underline{-6} \\ 0 \end{array}$$

$\frac{4}{5} \div \frac{6}{7} \rightarrow \frac{28}{30}$

K C F

$\frac{4}{5} \times \frac{7}{6} \rightarrow \frac{28}{30}$

simplify

$$\frac{28 \div 2}{30 \div 2} = \frac{14}{15}$$

Find GCF

$$\begin{array}{r} 28 \\ 2 \overline{) 28} \\ \underline{14} \\ 14 \\ 2 \overline{) 14} \\ \underline{14} \\ 0 \end{array}$$

Divide by 2

$$\begin{array}{r} 30 \\ 2 \overline{) 30} \\ \underline{15} \\ 15 \\ 2 \overline{) 15} \\ \underline{10} \\ 5 \\ 2 \overline{) 5} \\ \underline{4} \\ 1 \end{array}$$