

## Dividing Fractions

$$\frac{3}{4} \div \frac{1}{3}$$

K C F

Flipping is called taking the Reciprocal!

$$\frac{3}{4} \cdot \frac{3}{1} = \frac{9}{4} = 2\frac{1}{4}$$

**K**  
Keep

**C**  
change

**F**  
Flip

A few things → turn into improper!  
→ cross simplify after you take the reciprocal!

Examples:

①  $\frac{4}{5} \div \frac{2}{3}$

K C F

$$\frac{24}{5} \cdot \frac{3}{2} \quad \text{now simplify!}$$

$$\frac{4}{5} = \frac{1}{5}$$

②  $6 \div \frac{4}{5}$

K C F

$$\frac{3\cancel{6}}{1} \cdot \frac{5}{4 \cancel{2}}$$

$$\frac{15}{2} = 7\frac{1}{2}$$

③  $2\frac{1}{2} \div \frac{14}{5} = \frac{5}{2} \div \frac{14}{5} = \frac{5}{2} \cdot \frac{5}{14} = \frac{25}{28} = 1\frac{7}{28}$

K C F