

REMEMBER: Any number by itself can be written as a fraction by putting 1 on the bottom

$$8 = \frac{8}{1}$$

$$12 = \frac{12}{1}$$

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

### RECIPROCAL

The reciprocal of  $\frac{a}{b}$  is  $\frac{b}{a}$

Fraction

$$\frac{3}{4}$$

$$\frac{5}{2}$$

Reciprocal

$$\frac{4}{3}$$

$$\frac{2}{5}$$

To Divide Fractions we multiply by the Reciprocal

### Example 1

Divide. Estimate to check each quotient is reasonable.

$$\frac{3}{4} \div \frac{5}{6}$$

$$\frac{3}{4} \times \frac{6}{5} = \frac{18}{20} = \frac{9}{10}$$

### Example 2

$$\text{Divide: } \frac{7}{8} \div \frac{1}{4}$$

$$\frac{7}{8} \times \frac{4}{1} = \frac{28}{8} = \frac{14}{4} = \frac{7}{2}$$

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