

# 6.2 comparing and ordering fractions, decimals, & percents

EQ: How can you order and compare numbers written in fraction, decimal, & percent form?

To make it easier to compare/order, write the numbers in the same form.

Example 1: Which is greater?

$$\frac{3}{20} \text{ or } 16\%$$

15%      16%

Side Work

$$\frac{3}{20} \xrightarrow{\times 5} \frac{15}{100} = 15\%$$

$$16\% > \frac{3}{20}$$

Example 2: Order from least to greatest

$$0.4, 35\%, \frac{3}{5}$$

convert to decimal

$$0.4, 35\%, \frac{3}{5}$$

$$0.4, 0.35, 0.6$$

$$35\% \rightarrow 35\% = 0.35$$

$$\frac{3}{5} \quad 5 \overline{) 3.0} \\ \underline{30} \\ 0$$

convert to percent

$$0.4, 35\%, \frac{3}{5}$$

$$40\%, 35\%, 60\%$$

$$0.4 \xrightarrow{\times 20} 0.40 \rightarrow 40\%$$

$$\frac{3}{5} \xrightarrow{\times 20} \frac{60}{100} = 60\%$$

$$35\%, 0.4, \frac{3}{5}$$

Summary: