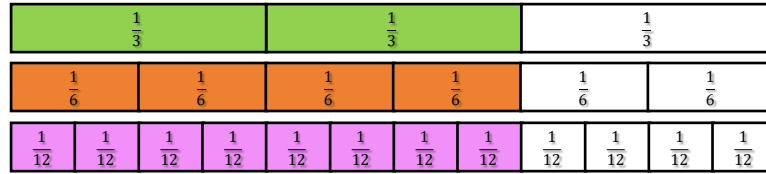


Equivalent Fractions

Warmup: Answer the warmup questions **before** watching the video solutions.

- 1.** Write 4 fractions that equal 1.

2.



How much of the top rectangle is shaded **green**?

How much of the middle rectangle is shaded **orange**?

How much of the bottom rectangle is shaded **purple**?

I. Equivalent Fractions

Look at the three rectangles (in warmup #2). What can you summarize about the amount shaded in each rectangle?

Equal Fractions: Fractions that have the same value.

To determine if fractions are equal

- 1.** The cross-products are equal

$$\frac{16}{32} \bigcirc \frac{5}{10}$$

$$\frac{20}{30} \bigcirc \frac{15}{25}$$

- 2.** Reduce each fraction, if they are the same fraction, then they are equal.

$$\frac{16}{32} \bigcirc \frac{5}{10}$$

$$\frac{20}{30} \bigcirc \frac{15}{25}$$

- 3.** The numerator and denominator of one fraction are multiplied by the same number to get the second fraction.

$$\frac{16}{32} \bigcirc \frac{5}{10}$$

$$\frac{20}{30} \bigcirc \frac{15}{25}$$

Inequality Symbols: symbols used to show the relationship between two amounts.

___ is less than ___ is greater than

___ is less than or equal to ___ is greater than or equal to

Use the cross products to determine the inequality symbol to use.

$$\frac{17}{35} \bigcirc \frac{3}{100}$$

$$\frac{30}{80} \bigcirc \frac{80}{30}$$

Use =, <, or > to compare the fractions.

$$\frac{1}{12} \bigcirc \frac{5}{48}$$

$$\frac{10}{52} \bigcirc \frac{5}{13}$$

$$\frac{3}{2} \bigcirc \frac{10}{8}$$

$$\frac{10}{8} \bigcirc \frac{40}{32}$$

- 3.** Compare with <, >, or =

$$\frac{5}{7} \bigcirc \frac{19}{28}$$

- 4.** Compare with <, >, or =

$$\frac{4}{9} \bigcirc \frac{28}{63}$$

- 5.** Compare with <, >, or =

$$\frac{20}{26} \bigcirc \frac{9}{13}$$

II. Find Missing Numerators or Denominators.

$$\frac{1}{2} = \frac{\quad}{10}$$

$$\frac{1}{2} = \frac{\quad}{10}$$

