

Name:

Inequality of Fractions

Directions: The point of the following exercises is to use your knowledge of parts and wholes and benchmarks to think about the size of fractions. **DO NOT USE A CALCULATOR** and **DO NOT CONVERT FRACTIONS TO DECIMAL VALUES.**

1. Which fraction is greater in each of the following pairs? Create a drawing to illustrate why the fraction you selected is greater.

a. $\frac{2}{3}$ or $\frac{5}{12}$

b. $\frac{7}{12}$ or $\frac{5}{6}$

c. $\frac{9}{12}$ or $\frac{3}{4}$

2. Mark approximately where each of the following fractions belongs on the following number line. Describe how you determined where to place each fraction. Make sure you can locate each fraction **WITHOUT** converting it to a decimal value.

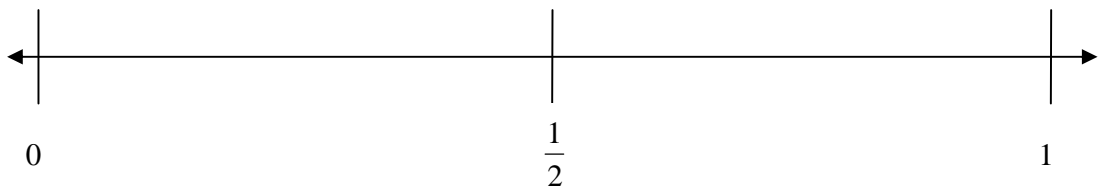
$$\frac{5}{12}$$

$$\frac{11}{15}$$

$$\frac{3}{7}$$

$$\frac{4}{21}$$

$$\frac{2}{3}$$



3. Which fraction in each pair is greater? Do **NOT** use drawings, models, common denominators, cross-multiplication, or decimals. Rely on your existing knowledge about the size of various fractions.

a. $\frac{4}{5}$ or $\frac{4}{9}$

b. $\frac{4}{7}$ or $\frac{5}{7}$

c. $\frac{3}{4}$ or $\frac{9}{10}$

d. $\frac{3}{8}$ or $\frac{4}{7}$

e. $\frac{5}{8}$ or $\frac{6}{10}$