

Name _____ Date _____

1. Draw an area model for each pair of fractions, and use it to compare the two fractions by writing $>$, $<$, or $=$ on the line. The first two have been partially done for you. Each rectangle represents 1.

<p>a. $\frac{1}{2}$ _____ $<$ _____ $\frac{3}{5}$</p> <p>$\frac{1 \times 5}{2 \times 5} = \frac{5}{10}$ $\frac{3 \times 2}{5 \times 2} = \frac{6}{10}$</p> <p>$\frac{5}{10} < \frac{6}{10}$ so $\frac{1}{2} < \frac{3}{5}$</p> <div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<p>b. $\frac{2}{3}$ _____ $\frac{3}{4}$</p> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div></div>
<p>c. $\frac{4}{6}$ _____ $\frac{5}{8}$</p>	<p>d. $\frac{2}{7}$ _____ $\frac{3}{5}$</p>
<p>e. $\frac{4}{6}$ _____ $\frac{6}{9}$</p>	<p>f. $\frac{4}{5}$ _____ $\frac{5}{6}$</p>

2. Rename the fractions, as needed, using multiplication in order to compare each pair of fractions by writing $>$, $<$, or $=$.

a. $\frac{2}{3}$ _____ $\frac{2}{4}$

b. $\frac{4}{7}$ _____ $\frac{1}{2}$

c. $\frac{5}{4}$ _____ $\frac{9}{8}$

d. $\frac{8}{12}$ _____ $\frac{5}{8}$

3. Use any method to compare the fractions. Record your answer using $>$, $<$, or $=$.

a. $\frac{8}{9}$ _____ $\frac{2}{3}$

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

c. $\frac{3}{2}$ _____ $\frac{9}{6}$

d. $\frac{11}{7}$ _____ $\frac{5}{3}$

4. Explain which method you prefer using to compare fractions. Provide an example using words, pictures, or numbers.

Answer Key

1.
 - a. Area models prove $\frac{1}{2} < \frac{3}{5}$
 - b. Area models prove $\frac{2}{3} < \frac{3}{4}$
 - c. Area models prove $\frac{4}{6} > \frac{5}{8}$
 - d. Area models prove $\frac{2}{7} < \frac{3}{5}$
 - e. Area models prove $\frac{4}{6} = \frac{6}{9}$
 - f. Area models prove $\frac{4}{5} < \frac{10}{12}$
2.
 - a. $>$
 - b. $>$
 - c. $>$
 - d. $>$
3.
 - a. $>$
 - b. $<$
 - c. $=$
 - d. $<$
4. Explanations will vary.