

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> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> $\frac{1 \times 5}{2 \times 5} = \frac{5}{10}$ $\frac{3 \times 2}{5 \times 2} = \frac{6}{10}$ </div> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 50%; height: 100%; border-right: 1px solid black;"></div> </div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> $\frac{5}{10} < \frac{6}{10}$ so $\frac{1}{2} < \frac{3}{5}$ </div> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-right: 1px solid black;"></div> </div> </div>	<p>b. $\frac{2}{3}$ _____ $\frac{3}{4}$</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> $\frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ $\frac{3 \times 3}{4 \times 3} = \frac{9}{12}$ </div> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-right: 1px solid black;"></div> </div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> $\frac{8}{12} < \frac{9}{12}$ so $\frac{2}{3} < \frac{3}{4}$ </div> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-right: 1px solid black;"></div> </div> </div>
<p>c. $\frac{4}{6}$ _____ $\frac{5}{8}$</p> <div style="border: 1px solid black; width: 100px; height: 100px;"></div>	<p>d. $\frac{2}{7}$ _____ $\frac{3}{5}$</p> <div style="border: 1px solid black; width: 100px; height: 100px;"></div>
<p>e. $\frac{4}{6}$ _____ $\frac{6}{9}$</p> <div style="border: 1px solid black; width: 100px; height: 100px;"></div>	<p>f. $\frac{4}{5}$ _____ $\frac{5}{6}$</p> <div style="border: 1px solid black; width: 100px; height: 100px;"></div>

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.