Name

Date

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.





Lesson 15:

Rename the fractions, as needed, using multiplication in order to compare each pair of fractions by 2.

writing >, <, or =. a. $\frac{2}{3}$ 2 $\frac{2}{4}$	$\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ $\frac{2}{4} = \frac{2 \times 3}{4 \times 3} = \frac{6}{12}$	b. $\frac{4}{7}$ $\frac{1}{2}$	$\frac{4}{7} = \frac{4x^2}{7x^2} = \frac{8}{14}$ $\frac{1}{2} = \frac{1x7}{2x7} = \frac{7}{14}$
c. $\frac{5}{4}$ $\frac{9}{8}$	<u>5</u> = <u>5x8</u> = <u>40</u> 4 = <u>4x8</u> = <u>32</u>	d. $\frac{8}{12}$ $\frac{5}{8}$	$\frac{8}{12} = \frac{8\times8}{12\times8} = \frac{64}{96}$
	$\frac{9}{8} = \frac{9 \times 4}{8 \times 4} = \frac{36}{32}$		$\frac{5}{8} = \frac{5 \times 12}{8 \times 12} = \frac{60}{96}$

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



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

Answers will vary, but might include ...

- draw tape diagram
- · draw number line
- find common denominators
- use benchmarks and logic