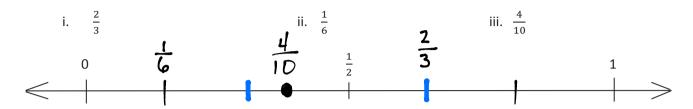
Name \_\_\_\_\_

Date

1.

a. Plot the following points on the number line without measuring.



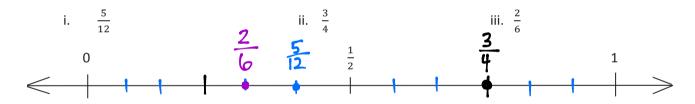
b. Use the number line in Part (a) to compare the fractions by writing >, <, or = on the lines.

i. 
$$\frac{2}{3}$$
  $\frac{1}{2}$ 

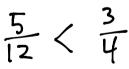
ii. 
$$\frac{4}{10}$$
  $\frac{1}{6}$ 

2.

a. Plot the following points on the number line without measuring.



b. Select two fractions from Part (a), and use the given number line to compare them by writing





c. Explain how you plotted the points in Part (a).

Decomposing each half into 2 parts helped me find 3. Cutting each fourth into 3 parts helped me locate 5. Two twelfths equals one Sixth, so 4=3. This helped me to locate 3 at 4.

Compare the fractions given below by writing > or < on the lines. Give a brief explanation for each answer referring to the benchmark of 0,  $\frac{1}{2}$ , and 1.

a. 
$$\frac{1}{2}$$
  $\frac{1}{4}$  is less than  $\frac{1}{2}$ 

b. 
$$\frac{6}{8}$$
  $\rightarrow \frac{1}{2}$   
be is greater than  $\frac{4}{8}$ , which is  $\frac{1}{2}$ .

c. 
$$\frac{3}{4}$$
  $\frac{3}{5}$ 

Fourths are bigger than fifths, so is greater than ?

e. 
$$\frac{2}{3}$$
  $\frac{1}{4}$ 

圣 is greater than 支 tis less than +

g. 
$$\frac{1}{3}$$
  $\frac{3}{6}$   $\frac{3}{6}$  is less than  $\frac{3}{6}$   $\frac{3}{6}$  is equal to  $\frac{1}{2}$ 

i. 
$$\frac{51}{100}$$
  $\rightarrow$   $\frac{5}{10}$   $\rightarrow$   $\frac{5}{10}$  is genter than  $\frac{1}{2}$   $\rightarrow$   $\frac{5}{10}$  is equal to  $\frac{1}{2}$ 

d. 
$$\frac{4}{6}$$
  $\frac{9}{12}$ 

9 is midway between 1 and 1. + is closer to - than 1.

f. 
$$\frac{4}{5}$$
  $\rightarrow$   $\frac{8}{12}$   $\rightarrow$  is closer to 1

& is closer to 2.

h. 
$$\frac{7}{8}$$
  $\rightarrow$   $\frac{3}{5}$ 
 $\frac{7}{8}$  is closer to 1
 $\frac{3}{5}$  is closer to  $\frac{1}{2}$ .

j. 
$$\frac{8}{14}$$
  $\frac{49}{100}$ 

1 is greater than 2

49 is less than 1/2.

Lesson 12:

Reason using benchmarks to compare two fractions on the number