

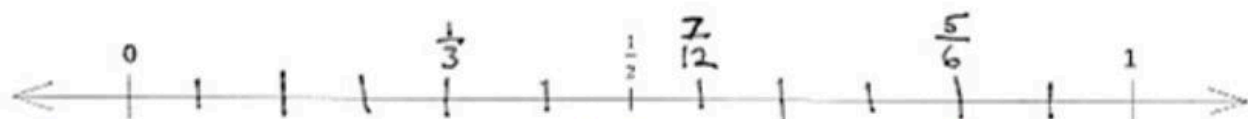
1.

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

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

ii. $\frac{5}{6}$

iii. $\frac{7}{12}$



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

i. $\frac{7}{12} > \frac{1}{2}$

ii. $\frac{7}{12} < \frac{5}{6}$

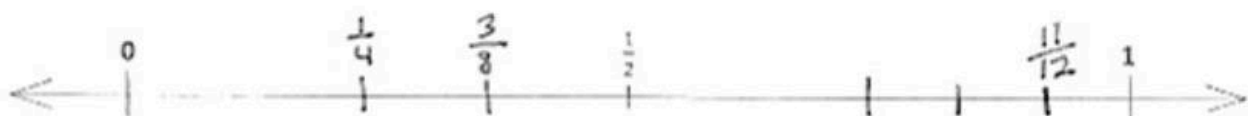
2.

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

i. $\frac{11}{12}$

ii. $\frac{3}{8}$

iii. $\frac{3}{9}$



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

$\frac{3}{8} < \frac{11}{12}$

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

I decomposed $\frac{1}{2}$ into 2 parts to find $\frac{1}{4}$. I decomposed a fourth into 2 parts to find $\frac{3}{8}$. Decomposing a fourth into 3 parts helped me find $\frac{11}{12}$.

3. Compare the fractions given below by writing $>$ or $<$ on the lines.

Give a brief explanation for each answer referring to the benchmarks 0, $\frac{1}{2}$, and 1.

a. $\frac{1}{2} < \frac{3}{4}$
 $\frac{3}{4}$ is greater than $\frac{1}{2}$

b. $\frac{1}{2} < \frac{7}{8}$
 $\frac{7}{8}$ is closer to 1.

c. $\frac{2}{3} > \frac{2}{5}$
 $\frac{2}{3}$ is greater than $\frac{1}{2}$
 $\frac{2}{5}$ is less than $\frac{1}{2}$

d. $\frac{9}{10} > \frac{3}{5}$
 $\frac{9}{10}$ is close to 1
 $\frac{3}{5}$ is close to $\frac{1}{2}$

e. $\frac{2}{3} < \frac{7}{8}$
 $\frac{2}{3}$ is $\frac{1}{3}$ away from 1
 $\frac{7}{8}$ is $\frac{1}{8}$ away from 1

f. $\frac{1}{3} < \frac{2}{4}$
 $\frac{1}{3}$ is less than $\frac{1}{2}$
 $\frac{2}{4}$ is equal to $\frac{1}{2}$

g. $\frac{2}{3} > \frac{5}{10}$
 $\frac{2}{3}$ is more than $\frac{1}{2}$
 $\frac{5}{10}$ is equal to $\frac{1}{2}$

h. $\frac{11}{12} > \frac{2}{5}$
 $\frac{11}{12}$ is closer to 1

i. $\frac{49}{100} < \frac{51}{100}$
 $\frac{49}{100}$ is less than $\frac{1}{2}$
 $\frac{51}{100}$ is more than $\frac{1}{2}$

j. $\frac{7}{16} < \frac{51}{100}$
 $\frac{7}{16}$ is less than $\frac{1}{2}$
 $\frac{51}{100}$ is more than $\frac{1}{2}$