Name _____   Date _____

1.

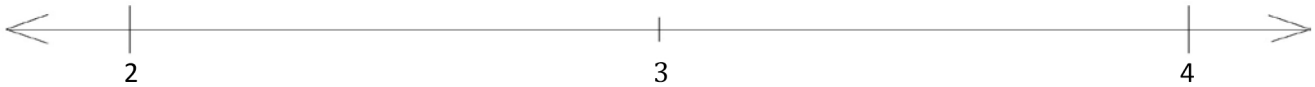   a. Plot the following points on the number line without measuring.

      i. $2\frac{1}{6}$ ii. $3\frac{3}{4}$ iii. $\frac{33}{9}$

      2   3   4

   b. Use the number line in Problem 1(a) to compare the fractions by writing >, <, or =.

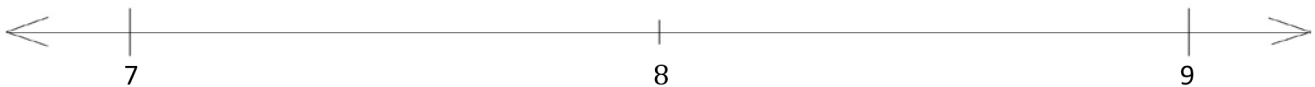   i. $\frac{33}{9}$ _____ $2\frac{1}{6}$ ii. $\frac{33}{9}$ _____ $3\frac{3}{4}$

2.

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

      i. $\frac{65}{8}$ ii. $8\frac{5}{6}$ iii. $\frac{29}{4}$

      7   8   9

   b. Compare the following by writing >, <, or =.

      i. $8\frac{5}{6}$ _____ $\frac{65}{8}$ ii. $\frac{29}{4}$ _____ $\frac{65}{8}$

   c. Explain how you plotted the points in Problem 2(a).

3. Compare the fractions given below by writing >, <, or =. Give a brief explanation for each answer, referring to benchmark fractions.

a. $5\frac{1}{3}$ _____ $5\frac{3}{4}$

b. $\frac{12}{4}$ _____ $\frac{25}{8}$

c. $\frac{18}{6}$ _____ $\frac{17}{4}$

d. $5\frac{3}{5}$ _____ $5\frac{5}{10}$

e. $6\frac{3}{4}$ _____ $6\frac{3}{5}$

f. $\frac{33}{6}$ _____ $\frac{34}{7}$

g. $\frac{23}{10}$ _____ $\frac{20}{8}$

h. $\frac{27}{12}$ _____ $\frac{15}{6}$

i. $2\frac{49}{50}$ _____ $2\frac{99}{100}$

j. $6\frac{5}{9}$ _____ $6\frac{49}{100}$

Answer Key

1.
   a. $2\frac{1}{6}$, $3\frac{3}{4}$, $\frac{33}{9}$ plotted

   b.   i.   >

        ii.   <

2.
   a. $\frac{65}{8}$, $8\frac{5}{6}$, $\frac{29}{4}$ plotted

   b.   i.   >

        ii.   <

   c.   Explanations will vary.

3.
   a.   <; explanations will vary.

   b.   <; explanations will vary.

   c.   <; explanations will vary.

   d.   >; explanations will vary.

   e.   >; explanations will vary.

   f.   >; explanations will vary.

   g.   <; explanations will vary.

   h.   <; explanations will vary.

   i.   <; explanations will vary.

   j.   >; explanations will vary.