Name _____   Date _____
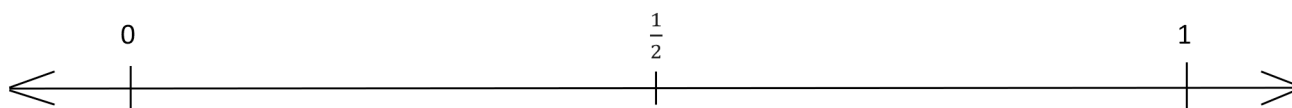
1.

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

        i. $\dfrac{2}{3}$ ii. $\dfrac{1}{6}$ iii. $\dfrac{4}{10}$

        0                                    $\dfrac{1}{2}$ 1

$\longleftarrow$———|————————————|————————————|———$\longrightarrow$

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

        i. $\dfrac{2}{3}$ ———— $\dfrac{1}{2}$ ii. $\dfrac{4}{10}$ ———— $\dfrac{1}{6}$
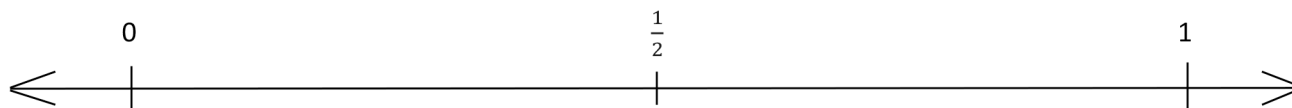
2.

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

        i. $\dfrac{5}{12}$ ii. $\dfrac{3}{4}$ iii. $\dfrac{2}{6}$

        0                                    $\dfrac{1}{2}$ 1

$\longleftarrow$———|————————————|————————————|———$\longrightarrow$

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

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

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

b. $\frac{6}{8}$ ——————— $\frac{1}{2}$

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

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

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

f. $\frac{4}{5}$ ——————— $\frac{8}{12}$

g. $\frac{1}{3}$ ——————— $\frac{3}{6}$

h. $\frac{7}{8}$ ——————— $\frac{3}{5}$

i. $\frac{51}{100}$ ——————— $\frac{5}{10}$

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

Answer Key

1. a. Points plotted appropriately for $\frac{2}{3}, \frac{1}{6}, \frac{4}{10}$

    b. i. $>$

        ii. $>$

2. a. Points plotted appropriately for $\frac{5}{12}, \frac{3}{4}, \frac{2}{6}$

    b. Answers will vary.

    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.