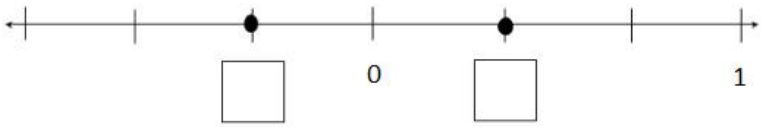
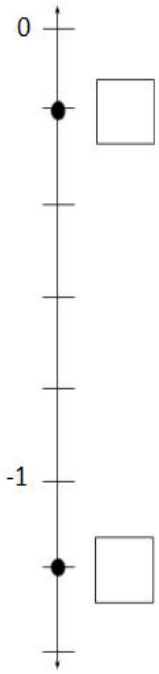
Name: _____ Date: _____

1. Determine the values that are represented by the boxes on the number lines below. Write the values in the boxes.

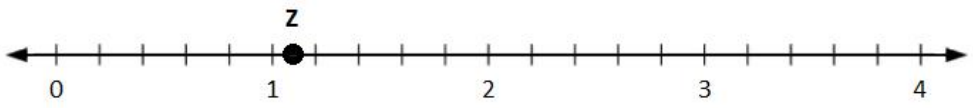
a.



b.



2. Use the number line below to answer the questions that follow.



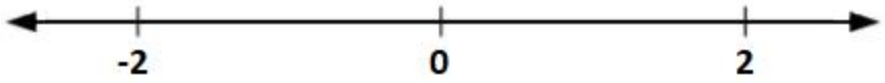
a. What is the decimal value of Point Z on the number line?

b. What is the opposite value of Point Z?

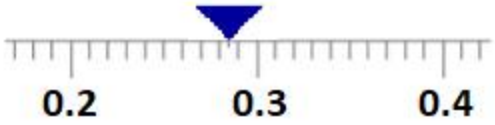
c. Plot and label $2\frac{1}{5}$ as Point Y.

d. Explain how you determined the placement of Point Y.

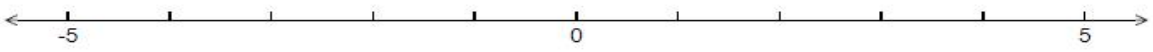
3. Graph $1\frac{2}{3}$ and its opposite on the number line below.



4. Determine the approximate value of the decimal identified below.



5. Use the number line below to plot the location of each point. Label each point with its letter.



Point A: $2\frac{1}{2}$

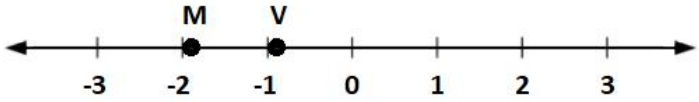
Point B: $-\frac{3}{4}$

Point C: $-\frac{7}{2}$

Point D: $-4\frac{1}{4}$

Point E: $\frac{17}{4}$

6. Mario and Victor were asked to plot the point -1.9. Mario plotted Point M and Victor plotted Point V. Who plotted their point at the correct location? Explain your reasoning.



7. A scientist studied the water level of a small pond during the month of May.

a. In the beginning of May, the water level of the pond was at sea-level. Plot point B on the number line to represent this water level.

b. After a storm in the middle of the month, the water level of the pond increased to $3\frac{3}{8}$ inches above sea-level. Plot point M on the number line to represent this water level.

c. At the end of the month, the water in the pond was $2\frac{3}{4}$ inches below sea-level. Plot point E on the number line to represent this water level.