Name _____ Date _____

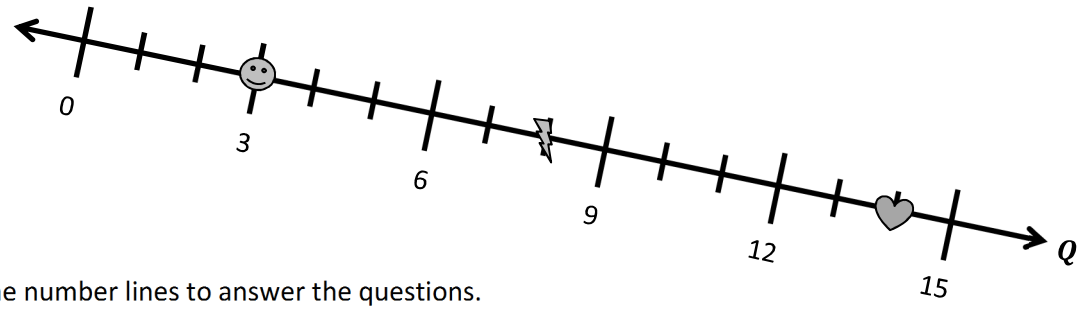
1. Answer the following questions using number line Q, below.

   a. What is the coordinate, or the distance from the origin, of the ? _____

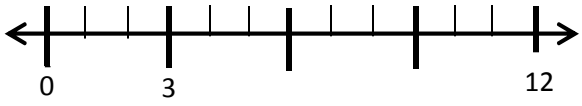
   b. What is the coordinate of ? _____

   c. What is the coordinate of ? _____

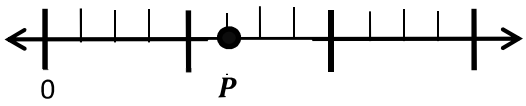
   d. What is the coordinate at the midpoint of and ? _____



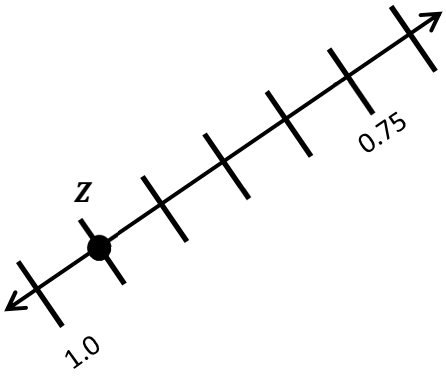
2. Use the number lines to answer the questions.



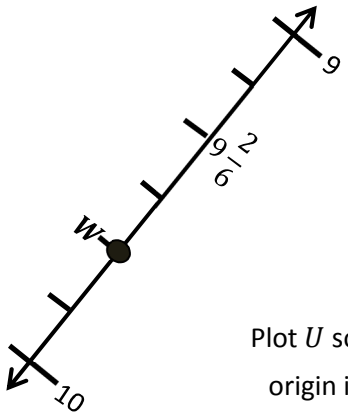
Plot T so its distance from the origin is 10.



Plot M so its distance is $\frac{11}{4}$ from the origin.
What is the distance from P to M?

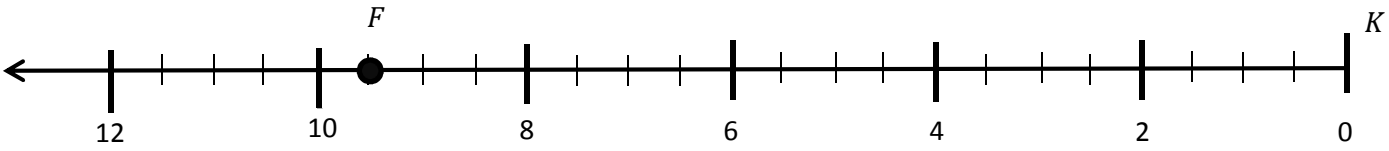


Plot a point that is 0.15 closer to the origin than Z.



Plot U so that its distance from the origin is $\frac{3}{6}$ closer than that of W.

3. Number line K shows 12 units. Use number line $\boldsymbol{K}$, below, to answer the questions.



a. Plot a point at 1. Label it A.

b. Label a point that lies at $3\frac{1}{2}$ as B.

c. Label a point, C, whose distance from zero is 8 units farther than that of B.

The coordinate of C is _____.

d. Plot a point, D, whose distance from zero is $\frac{6}{2}$ closer to zero than B.

The coordinate of D is _____.

e. What is the coordinate of the point that lies $\frac{17}{2}$ farther from the origin than D?

Label this point E.

f. What is the coordinate of the point that lies halfway between F and D?

Label this point G.

4. Mr. Baker's fifth-grade class buried a time capsule in the field behind the school. They drew a map and marked the location of the capsule with an X so his class can dig it up in ten years. What could Mr. Baker have done to make the capsule easier to find?