Name _____ Date _____

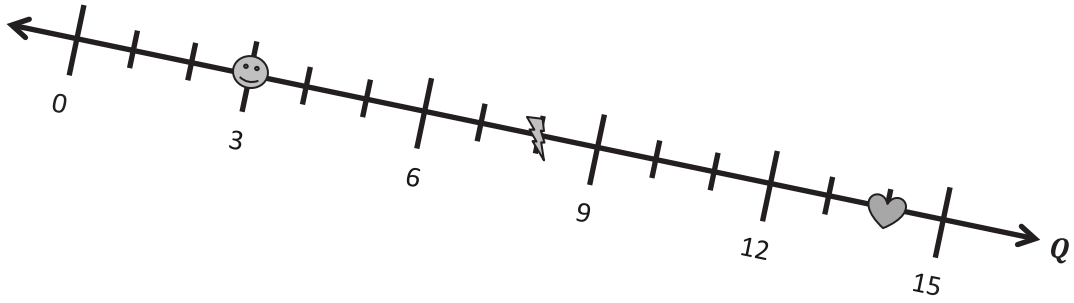
1. Answer the following questions using number line Q, below.

   a. What is the coordinate, or the distance from the origin, of the ☺? 3

   b. What is the coordinate of ⚡? 8

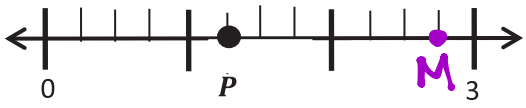
   c. What is the coordinate of ♥? 14

   d. What is the coordinate at the midpoint of ⚡ and ♥? 11



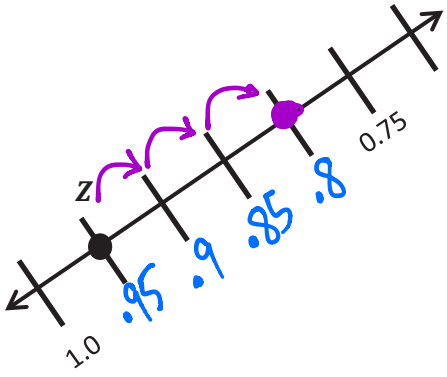
2. Use the number lines to answer the questions.

Plot T so that its distance from the origin is 10.

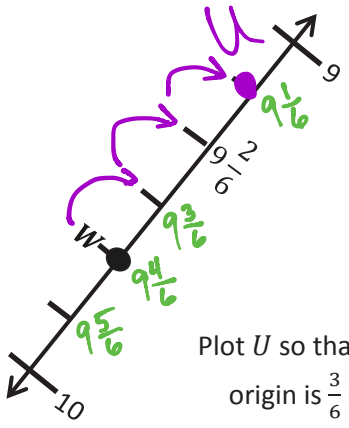


Plot M so that its distance is $\frac{11}{4}$ from the origin. What is the distance from P to M? $1\frac{3}{4}$ or $\frac{6}{4}$

$\frac{11}{4} = 2\frac{3}{4}$



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



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

3. Number line $\boldsymbol{K}$ 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 $11\frac{1}{2}$.

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

The coordinate of D is $\frac{1}{2}$.

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

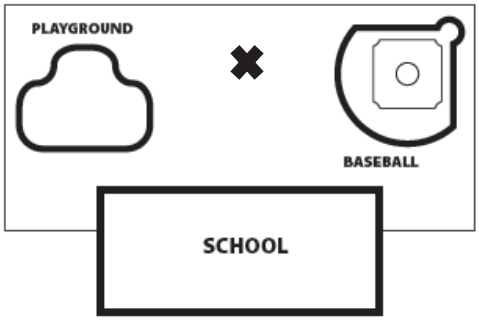
$\frac{17}{2} = 8\frac{1}{2}$

Label this point E. E is at 9.

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

Label this point G. G is at 5.

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 ✖ so that his class can dig it up in ten years. What could Mr. Baker's class have done to make the capsule easier to find?



Answers will vary.

Measure the distance between the playground and the baseball field. Treat that distance like a number line. Determine where the X is.