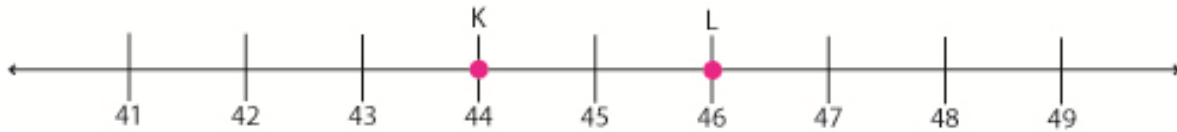


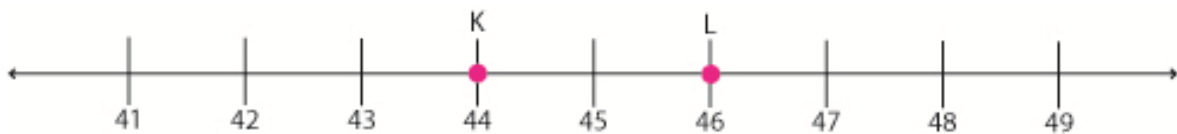
**Finding Midpoints - Step-by-Step Lesson**

a. What is the coordinate of the midpoint of  $\overline{KL}$ ?

**Explanation:**

If the coordinate of Y is  $x_1$  and the coordinate of Z is  $x_2$ , then the coordinate of the midpoint of YZ is  $\frac{x_1+x_2}{2}$ .

Find the coordinates of K and L on the number line.



The coordinate of K is 44 and the coordinate of L is 46. So the coordinate of the midpoint is  $\overline{KL}$  is  $\frac{44 + 46}{2} = \frac{90}{2} = 45$

If you plot the midpoint on the number line, you can see that it is the halfway between K and L.

