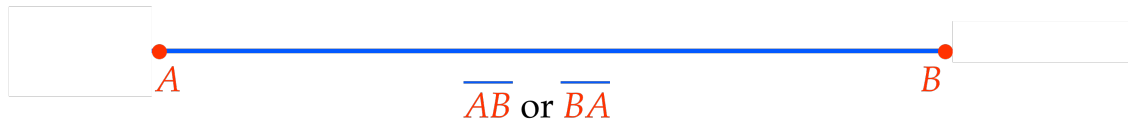


What is a Line Segment?

A part of a line that consists of **two points**, called **endpoints**.

How do we measure the distance between **two points** on a **line segment**?



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\overline{AB} or \overline{BA}

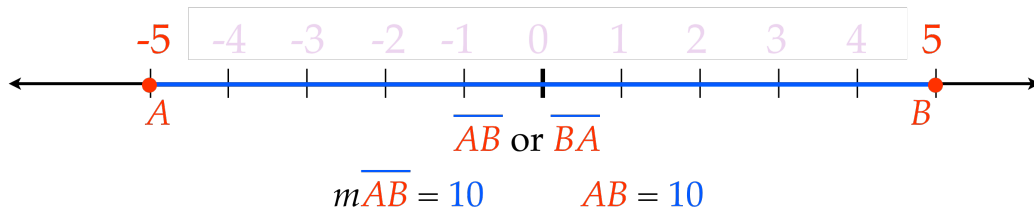
$$m\overline{AB} = 10 \text{ in.} \quad AB = 10 \text{ in.}$$

Instead of using a **ruler** to measure the length of the **segment**, we use a number line.

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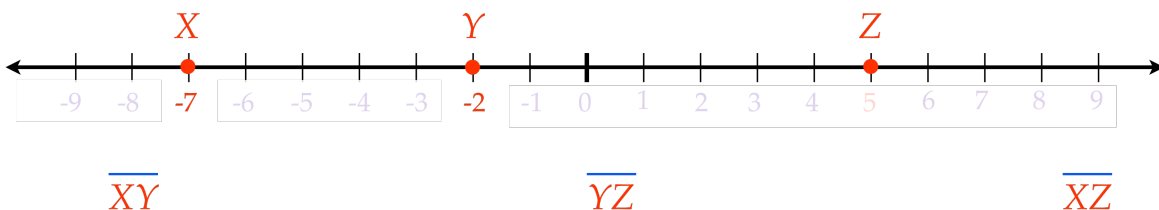
How do we measure the distance between **two points** on a **line segment**?



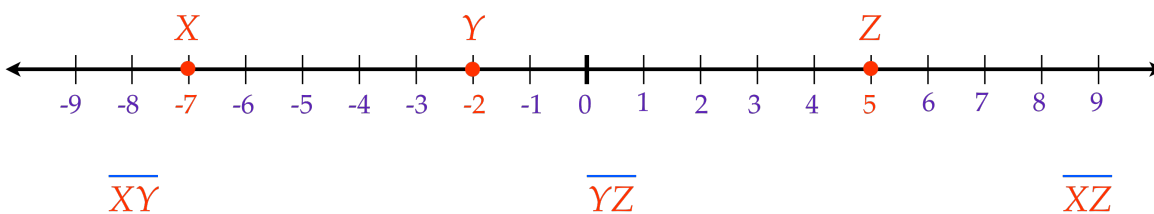
The distance between **two points** is the absolute value of the difference of their **coordinates**.

Distance between **A** and **B**: $|-5 - 5|$ or $|5 - (-5)| = 10$

Determine the length of the following **segments**.



Determine the length of the following segments.



The distance between **two points** is the absolute value of the difference of their **coordinates**.

$$m\overline{XY} = 5 \qquad XY = 5$$