Distance on the Number Line

To find the distance between two points on a number line, subtract their coordinates. Then, take the absolute value of the difference.

$$-4 - 3 = -7$$

$$|-7| = 7$$

You can also find the distance by finding the absolute value of the difference of the coordinates.

$$| -4 - 3 | = 7$$

Graph each pair of points. Then write an expression using absolute value to find the distance between the points.

1. A at $-5$ and B at $2$  
$$|-5 - 2| = 7$$

2. C at $-7$ and D at $-1$  
$$|-7 - (-1)| = 6$$

3. E at $-5$ and F at $5$  
$$|-5 - 5| = 10$$

4. W at $0$ and X at $6$  
$$|0 - 6| = 6$$

5. Y at $-4$ and Z at $0$  
$$|-4 - 0| = 4$$
Integer Maze

Find your way through the maze by moving to the expression in an adjacent section with the next highest value.