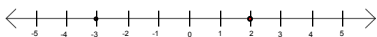
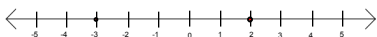


Name \_\_\_\_\_

Date \_\_\_\_\_ Block \_\_\_\_\_

Geometry Terms:	Example/Diagram	Conclusion
Distance on a number line $D =   \text{difference}  $ between the two points.	Given the following number line and two points, Find the distance between the points.  	$D =   -3 - (-2)   =   -5   = 5$
Distance between two points on a coordinate grid.  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	Given the following two points (4,3) and (-2, 0), find the distance between the points.	$D = \sqrt{(-2-4)^2 + (0-3)^2}$ $D = \sqrt{(-6)^2 + (-3)^2}$ $D = \sqrt{36 + 9}$ $D = \sqrt{45}$ $D = 3\sqrt{5}$
Midpoint on a numberline. $D = \text{sum divided by } 2$ .	Given the following number line and two points, Find the midpoint of the points.  	$MP = \frac{-3 + (-2)}{2} = \frac{-5}{2}$ $= -2.5$
Midpoint between two points on a coordinate grid. $X_m = \frac{X_1+X_2}{2}$ ; $Y_m = \frac{Y_1+Y_2}{2}$	Given the following two points (4,3) and (-2, 0), find the midpoint of the points.	$X_{mp} = \frac{4 + (-2)}{2} = \frac{2}{2} = 1$ $Y_{mp} = \frac{3 + 0}{2} = \frac{3}{2} = 1.5$
Slope - how a line angles from horizontal. Or steepness of a line. $m = \frac{y_1 - y_2}{x_1 - x_2}$	Given the following two points (4,3) and (-2, 0), find the slope of the line between the two points.	$Slope = \frac{3 - 0}{4 - (-2)} = \frac{3}{6} = \frac{1}{2}$