

Algebra 2 - April 20 K/H Extension

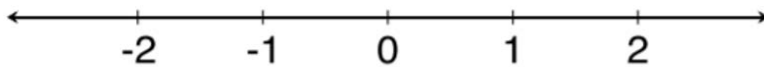
1. Directions: Using the integers 1 to 9, fill in the boxes so that the chart is accurate. You can only use a number once per red (large) box and once per blue (small) box.

		Increasing size \rightarrow		
Increasing size \downarrow	$\log_{\square} \square$	$\log_{\square} \square$	$\log_{\square} \square$	
	$\log_{\square} \square$	1	$\log_{\square} \square$	
	$\log_{\square} \square$	$\log_{\square} \square$	$\log_{\square} \square$	

<https://www.openmiddle.com/logs/>

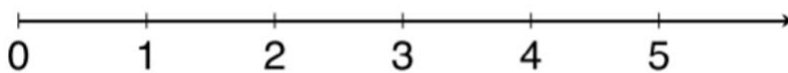
Place the following expressions on the number line. Use the space below the number line to explain how you knew where to place each expression.

2. A. $\log_3 3$ B. $\log_3 9$ C. $\log_3 \frac{1}{3}$ D. $\log_3 1$ E. $\log_3 \frac{1}{9}$



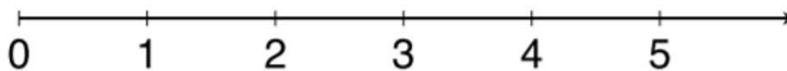
Explain. _____

3. A. $\log_3 81$ B. $\log_{10} 100$ C. $\log_8 8$ D. $\log_5 25$ E. $\log_2 32$



Explain. _____

4. A. $\log_{10} 50$ B. $\log_{10} 150$ C. $\log_{10} 1000$ D. $\log_{10} 500$



Explain. _____

