Name:	Period:	Date:	
Math Unit 6: Integers and the Coordinate Plane			
6.4-Absolute Value			
SWBAT:		Paraphrase:	
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Essential Question: How can you describe how far an object is from sea level?			
Vocabulary	Absolute Value:		
	Absolute value DOES NOT mean	opposite-it is ALWAYS positive!	
Example 1	a. Find the absolute value of 3.		
		Graph 3 on a number line.	
	-5 -4 -3 -2 -1	> > > > > > >	
		The distance between 3 and 0 is 3.	
	So, $ 3 = 3$.		
	b. Find the absolute value of $-2\frac{1}{2}$.		
	Comb. 21 or		
		a number line.	
	-4 -3 -2		
		$-2\frac{1}{2}$	
	The distar	the between $-2\frac{1}{2}$ and 0 is $2\frac{1}{2}$.	
	So, $\left -2\frac{1}{2} \right = 2\frac{1}{2}$.		
Your Turn	a. Find the absolute value of	-10	
	b. Find the absolute value of	8.3	

Example 2	Compare 2 and $ -5 $.		
	Graph 2 on a number line. Graph $ -5 = 5$ on a number line.		
	-2 -1 0 1 2 3 4 5 6		
	\uparrow		
	\therefore So, 2 < $ -5 $.		
Your Turn	Compare -10 and 4.		
Example 3	Animal Elevation (ft) The table shows the elevations of several animals.		
	Shark -4 a. Which animal is the deepest? Explain. $60 + 5_{eagull: 56}$		
	Sea lion50Seagull5650		
	Shrimp -65 The lowest elevation represents the animal $_{30}$ -		
	Turtle -22 and its the deepest. The integer that is lowest $20 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + $		
	So, the shrimp is the deepest. $\circ \oint \frac{\text{Sea lion: 5}}{\text{Shark: }-4}$		
	-20 Turtle: -22 -30 +		
	-40		
	-70 + Shrimp: -65		
	Y		
	b. Is the shark or the sea lion closer to sea level?		
	Because sea level is at 0 feet, use absolute values.		
	Shark: $ -4 = 4$ Sea lion: $ 5 = 5$		
	Because 4 is less than 5, the shark is closer		
	to sea level than the sea lion.		
Your Turn	The table shows the elevations of a bird and a fish. Which is closer to sea level?		
	Animal Elevation (ft)		
	Bird 10		
	Fish -9		
Notes / Questions			