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PERIOD

Unit 5: Pre-Unit Diagnostic Assessment

Do not use a calculator.

- 1. a. A dolphin is at the surface of the ocean. What is the dolphin's elevation?
 - b. The dolphin dives 20 feet below the surface of the ocean. What is its new elevation?
- 2. Place and label the following numbers on the number line.



3. Kiran says that -2 < -5. Do you agree with Kiran? Explain or show your reasoning.

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4. a. Put these numbers in order of their distance from 0 on the number line, starting with the smallest distance:

-26, -12.7,
$$-\frac{9}{2}$$
, $\frac{2}{100}$, 7, $11\frac{1}{4}$, $\frac{41}{2}$, 35

b. Find the values of |-12.7| and $|11\frac{1}{4}|$.

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- a. Andre received and spent money in the following ways last month. For each example, write a positive or negative number to represent the change in money from his perspective.
 i. His uncle gave him \$25 as a present.
 - ii. He earned \$18 dollars tutoring.
 - iii. He spent \$10 on a book.
 - b. What does 0 mean in this situation?

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6.

a. Plot and label these four points in the coordinate plane.

		1	4 = (2,3)	, <i>B</i> =	= (-2	, 1), (_ = (4,-:	5), L) = (-3,	5)				
							^y ▲	`									
							5										
							4										
							3								-		
							2								-		
							1										
-8	-7	-6	-5 -	4 -	3 -	2 -	10	1	2	2 .	3	4	5	6	7	8	>
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-8	-7	-6	-5 -	4 -	3 -	2 -	1 ල -1 -2	1	2	2	3	4	5	6	7	8	x
-8	-7	-6	-5 -	4 -	3 -	2 -	1 	1	2	2 3	3	4	5	6	7	8	*
-8	-7	-6	-5 -	4 -	3 -	2 -	1 () 1 2 3 -4	1	2	2	3	4	5	6	7	8	×
-8	-7	-6	-5 -	4 -	3 -	2 -	1 () 1 2 3 4 5	1	2	2	3	4	5	6	7	8	*

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b. Find the distance between *C* and *D*.