Name _____ Core _____ Date _____

Vocabulary and Concept Check

1. **VOCABULARY** Explain how to find the absolute value of an integer.

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2. **REASONING** Which integer is greater, −50 or 25? Which has the greater absolute value? Explain.

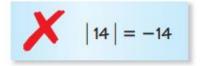_____

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3. DIFFERENT WORDS, SAME QUESTION Which is different? Find "both" answers.

> How far is −3 from 0?   What integer is 3 units to the left of 0?

> What is the absolute value of −3?   What is the distance between −3 and 0?

_____

_____

_____

_____

Practice and Problem Solving

Use a vertical number line to graph the location of each object. Then tell which object is farther from sea level.

4. Scuba diver: −15 m
Dolphin: −22 m

Farther from sea level: _____

Find the absolute value.

12. $|11|$ _____

14. $|-68|$ _____

16. **ERROR ANALYSIS** Describe and correct the error in finding the absolute value.

$\times$ $|14| = -14$

Copy and complete the statement using <, >, or =.

18. $|-3|$ ▢ 3

20. $\dfrac{3}{4}$ ▢ $\left|-\dfrac{2}{5}\right|$

Order the values from least to greatest.

28. $|-3|,\ |5|,\ -3,\ -4,\ |-4|$

Simplify the expression.

32. $-|6|$

Tell whether the statement is *always, sometimes,* or *never* true. Explain.

36. The absolute value of a negative number is positive.

38. PALINDROME A *palindrome* is a word or sentence that reads the same forward as it does backward.

    a. Graph and label the following points on a number line: $A = -2$, $C = -1$, $E = 0$, $R = -3$. Then graph and label the absolute value of each point on the *same* number line.

    b. What word do the letters spell? Is this a palindrome?

    c. Make up your own palindrome.

a.

b. _____

c. _____

Fair Game Review *What you learned in previous grades & lessons*

Draw the polygon with the given vertices in a coordinate plane. *(Section 4.4)*

40. $A(1, 1)$, $B(3, 5)$, $C(5, 0)$ **41.** $D(0, 6)$, $E(2, 1)$, $F(6, 3)$

42. $P(2, 1)$, $Q(4, 4)$, $R(8, 4)$, $S(6, 1)$ **43.** $W(1, 6)$, $X(9, 6)$, $Y(9, 1)$, $Z(4, 1)$

44. MULTIPLE CHOICE Which expression represents "6 less than the product of 4 and a number x"? *(Section 3.2)*

    (A) $(6 - 4)x$ **(B)** $6 - 4x$ **(C)** $\dfrac{6}{4x}$ **(D)** $4x - 6$