6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.

Simplify:

1. $|-2|$

   [A] $\dfrac{1}{2}$ [B] 2   [C] –2   [D] $-\dfrac{1}{2}$

2. $-8-|-7-8|-6$

   [A] –29   [B] 3   [C] 1   [D] –1

Evaluate:

3. $|-2.3|$

4. $|-12-(-2)|$

Simplify:

5. $13-14-|-13|+|15-14+4|$

6. $1-12-|-11|-[-|-13|\,]$

7. $-[-(-3)]-\{-[-(-1)]\}$

8. Evaluate the expression for $a = -6$ and $b = -2$.
   $|a|+|4b|$

   [A] –14   [B] 2   [C] 14   [D] –2

9. Evaluate the expression $|x|+|y|-|z|$ when $x = 3$, $y = -2$, and $z = -5$.

10. Compare the quantities in Column A and Column B.

Column A	Column B
$|a|$	$|-a|$

    [A] The quantity in Column A is greater.

    [B] The quantity in Column B is greater.

    [C] The quantities are equal.

    [D] The relationship cannot be determined from the information given.

11. Use the problem solving strategy *Guess and Test* to find two values each for a and b, where a is positive and b is negative, to make the statement $|a-b| = |b-a|$ true.

12. Use the problem solving strategy of *Guess and Test* to find two values each for a and b to make the statement $-|ab| = ab$ true.

Answer Key

6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.

[1] B

[2] A

[3] 2.3

[4] 10

[5] –9

[6] –9

[7] –2

[8] C

[9] 0

[10] C

[11] Answers may vary. Sample: $a = 2$ and $b = -2$, $a = 3$ and $b = -3$.

[12] Answers may vary. Sample: $a = -2$, $b = 2$ and $a = -5$, $b = 3$