



L 2.5 Solving Absolute Value Equations

10 Questions

NAME : _____

CLASS : _____

DATE : _____

1. $|v + 8| - 5 = 2$

☐ a) $\{-1, -15\}$ ☐ c) $\{-15, 15\}$ ☐ b) $\{-1, -5\}$ ☐ d) No Solution

2. $-|-2r - 1| = 11$

☐ a) $\{-6, 5\}$ ☐ c) -6 ☐ b) $\{5, -6\}$ ☐ d) No Solution

3. $|-4 + 5x| = 16$

☐ a) $\{16/5, 12/5\}$ ☐ c) $\{-12/5, 4\}$ ☐ b) $\{4, -5\}$ ☐ d) 4

Help

4. $-2|-2r - 4| = -12$

☐ a) $\{3,1\}$ ☐ c) $\{-3\}$ ☐ b) $\{-3,-1\}$ ☐ d) No Solution

5. $|-2n| + 10 = -50$

☐ a) $\{30, -30\}$ ☐ c) $\{-5,5\}$ ☐ b) $\{20,-20\}$ ☐ d) No Solution

6. $|2x + 9| = 15$

☐ a) $x = 3$ ☐ c) $x = 3$
 $x = -12$ ☐ b) $x = 3$
 $x = -6$ ☐ d) $x = 6$
 $x = -12$

7. $3|-8x| + 8 = 80$

☐ a) $\{-7/3, 7/3\}$ ☐ c) $\{11/3, -11/3\}$ ☐ b) $\{-3,3\}$ ☐ d) No Solution

8. $|v + 8| - 5 = 2$

☐ a) $\{-15, -1\}$ ☐ b) $\{-1, -5\}$ ☐ c) $\{-15, 15\}$ ☐ d) No Solution

9. What is the reason that absolute value is always written as a positive?

☐ a) Absolute value is talking about numbers so it must be positive.☐ b) Absolute value does not always have to be positive.☐ c) Absolute value is like a clock it has only positive numbers.☐ d) Absolute value is talking about distance, distance is always measured by positive numbers.

10. Order the numbers from least to greatest.

 $-2, |8|, 5, |-10|, 6$ ☐ a) $-2, |8|, 5, |-10|, 6$ ☐ b) $-10, -2, 5, 6, 8$ ☐ c) $-2, 5, 6, 8, 10$ ☐ d) $|-10|, -2, 5, 6, |8|$