
Solving for x: Lesson 15

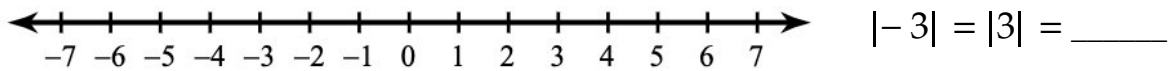
Solving Absolute Value Equations: Notes

Name: _____



Absolute Value is shown with: _____

Official definition of *absolute value*: The distance away from _____



Absolute Value:

- Turns the value inside _____ .
- If the inside is already _____ , the absolute value is powerless.

$$|-45| = \underline{\quad}$$

$$|87| = \underline{\quad}$$

Evaluate.

$$-|-5| = \underline{\quad}$$

$$|17 - 4| = \underline{\quad}$$

$$|8 - 10| = \underline{\quad}$$

Solve: $|x + 3| = 6$

Solving absolute value equations:

1. Get the absolute value by _____ .
2. Check if the absolute value equals a _____ number. If it does, there is _____ solution!
3. Branch into two equations:
 - 1) Copy without absolute value signs
 - 2) Copy absolute value = _____ answer
4. _____ both equations.

Solve for x: $\frac{|x-7|}{2} - 4 = 3$