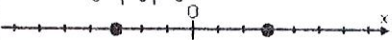


Absolute Value Notes

Name _____ per _____

Absolute Value	A number's distance from zero	<ul style="list-style-type: none"> o $3 = 3$ o $-3 = 3$ 
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- Absolute value only asks "how far?", not "in which direction?"
 - o This is why absolute value is never negative.
- **Notation:** $|x|$; Read as "the absolute value of x"
 - o **Warning:** The absolute-value notation is *bars*, not parentheses or brackets.
 - o Use the proper notation: the other notations do not mean the same thing.
 - It is important to note that the absolute value bars do NOT work in the same way as do parentheses.
 - $-(-3) = +3$
 - $-|-3| = -3$
 - o I first handle the absolute value part, taking the positive and converting the absolute value bars to parentheses:
 - $-|-3| = -(+3)$
 - o Now I can take the negative through the parentheses:
 - $-| -3 | = -(3) = -3$
 - o If you take the negative of an absolute value, you will get a negative number for your answer
- **Practice:**

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

$$|2 - 5| = \underline{3}$$

$$|12| = \underline{12}$$

$$|-100| = \underline{100}$$

$$|5 - 2| = \underline{3}$$

$$-|10| = \underline{-(10) = -10}$$

$$|0 - 6| = \underline{6}$$

$$-|-3| = \underline{-3}$$

$$|0(-4)| = \underline{0}$$

$$-|10 - 8| = \underline{-2}$$