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## ABSOLUTE VALUE

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### Vocabulary

Absolute value		
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When people talk about the **absolute value** of a number they are talking about the \_\_\_\_\_ itself with no regard to its \_\_\_\_\_.

In other words, it's the number of units away from \_\_\_\_\_ and the direction doesn't matter.

When solving equations with absolute value, treat the absolute value sign like a grouping symbol. So, all operations inside the absolute value sign should be completed before taking the absolute value or completing any other operations outside the absolute value symbols Here are the steps:

- 1) find the value of the numbers **inside** the absolute value symbol (two vertical lines)
- 2) write the absolute value of that amount and remove the absolute value symbols
- 3) complete the rest of the equation using PEMDAS

**NOTE:** Always pay attention to where the absolute value bars are written, especially if there is a negative. Is it *inside* or *outside* the absolute value symbols?

**ALSO NOTE:** Parentheses CANNOT be used to denote absolute value.

Opposite numbers have the \_\_\_\_\_ absolute value.