

Absolute Value Worksheets

1. In math class, Carl and Angela are debating about integers and absolute value. Carl said two integers can have the same absolute value, and Angela said one integer can have two absolute values. Who is right? Defend your answer.

2. Jamie told his math teacher: "Give me any absolute value, and I can tell you two numbers that have that absolute value." Is Jamie correct? For any given absolute value, will there always be two numbers that have that absolute value?

3. Use a number line to show why a number and its opposite have the same absolute value.

4. A bank teller assisted two customers with transactions. One customer made a \$25 withdrawal from a savings account. The other customer made a \$15 deposit. Use absolute value to show the size of each transaction. Which transaction involved more money?

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1. In math class, Carl and Angela are debating about integers and absolute value. Carl said two integers can have the same absolute value, and Angela said one integer can have two absolute values. Who is right? Defend your answer.

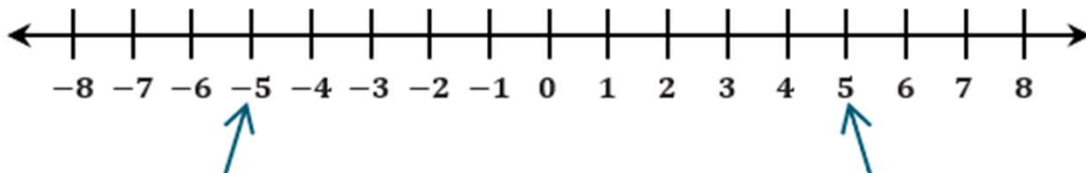
Carl is right. An integer and its opposite are the same distance from zero. So, they have the same absolute values because absolute value is the distance between the number and zero.

2. Jamie told his math teacher: "Give me any absolute value, and I can tell you two numbers that have that absolute value." Is Jamie correct? For any given absolute value, will there always be two numbers that have that absolute value?

No, Jamie is not correct because zero is its own opposite. Only one number has an absolute value of 0, and that would be 0.

3. Use a number line to show why a number and its opposite have the same absolute value.

A number and its opposite are the same distance from zero but on opposite sides. An example is 5 and -5 . These numbers are both 5 units from zero. Their distance is the same, so they have the same absolute value, 5.



4. A bank teller assisted two customers with transactions. One customer made a \$25 withdrawal from a savings account. The other customer made a \$15 deposit. Use absolute value to show the size of each transaction. Which transaction involved more money?

$|-25| = 25$ and $|15| = 15$. The \$25 withdrawal involved more money.

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