

The **absolute value** of a number is the distance between the number and the origin on a number line. Absolute value is always a positive number because it represents a distance. Thus, the absolute value of -5 (negative five) is 5, because -5 is 5 units from zero. Two vertical bars indicate absolute value.

"The absolute value of negative five is five."

$$|-5| = 5$$

We can order and compare numbers by noting their position on the number line. We use the equal sign and the greater than/less than symbols ($>$ and $<$, respectively) to indicate a comparison. When properly placed between two numbers, the small end of the symbol points to the lesser number.

Example 1

Arrange these integers in order from least to greatest.

$$-3, 3, 0, 1$$

Solution

We write the integers in the same order as they appear on the number line.

$$-3, 0, 1, 3$$

Example 2

Compare:

a. $-3 \bigcirc -1$

b. $|-3| \bigcirc |-1|$

Solution

- a. We replace the circle with the correct comparison symbol. Negative three is less than negative one.

$$-3 < -1$$

- b. The absolute value of -3 is 3 and the absolute value of -1 is 1, and 3 is greater than 1.

$$|-3| > |-1|$$

We graph a point on a number line by drawing a dot at its location. Below we graph the numbers -4 , -2 , 0 , 2 , and 4 .



These numbers are members of the set of **even numbers**. The set of even numbers can be expressed as a **sequence**, an ordered list of numbers that follows a rule.

The set of even numbers

$$\{\dots -4, -2, 0, 2, 4, \dots\}$$

Thinking Skill

Connect

When you move from left to right on a number line, do the numbers increase or decrease? What happens to the numbers when you move from right to left?

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Cathy Duffy



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