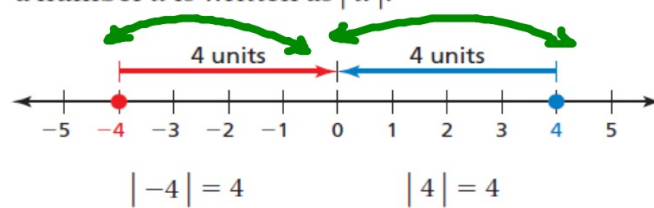


8/30 - Integers and Absolute Value (day 2)

Review of yesterday

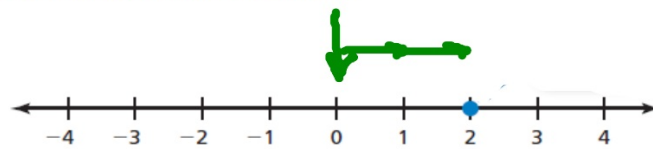
The **absolute value** of an integer is the distance between the number and 0 on a number line. The absolute value of a number a is written as $|a|$.



* Never negative

EXAMPLE 1 Finding Absolute Value

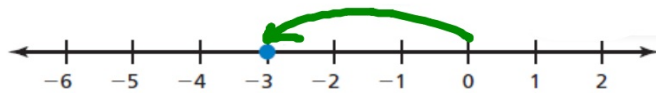
Find the absolute value of 2.



$$|2| = 2$$

EXAMPLE 2 Finding Absolute Value

Find the absolute value of -3 .



$$|-3| = 3$$

● On Your Own

Find the absolute value of the integer.

1. 7

2. -1

3. -5

4. 14

7

1

5

14



EXAMPLE 3 Comparing Values

Compare 1 and $|-4|$.



$>$

$<$

$=$

$$1 < |-4|$$

4

● On Your Own

Copy and complete the statement using $<$, $>$, or $=$.

5. $|-2|$ -1

6. -7 $|6|$

7. $|10|$ 11

8. 9 $|-9|$

5. $2 > -1$

6. $-7 < 6$

7. $10 < 11$

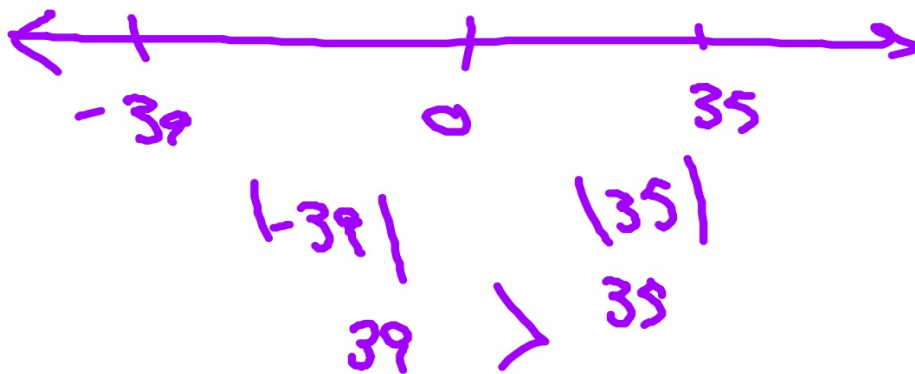
8. $9 = 9$

EXAMPLE 4 Real-Life Application

Substance	Freezing Point ($^{\circ}\text{C}$)
Butter	35
Airplane fuel	-53
Honey	-3
Mercury	-39
Candle wax	55

The *freezing point* is the temperature at which a liquid becomes a solid.

- Which substance in the table has the lowest freezing point?
- Is the freezing point of mercury or butter closer to the freezing point of water, 0°C ?



HW:

Pg 6 #4-36 all
due Wednesday