

August 26, 2014

1st

2nd



Three kids helped their mom rake leaves. She told them that she would pay them a dime for each minute they worked. When they were done, they told her the following things:

- Adam: We all started at 9:00 and I stopped at 9:30.
- Beth: I worked 10 minutes longer than Adam.
- Charlie: I worked until 10:00 so I could finish it all up.

If their mother paid them each their separate amounts using exactly 14 coins each, how much did she pay them and what coins did she use?

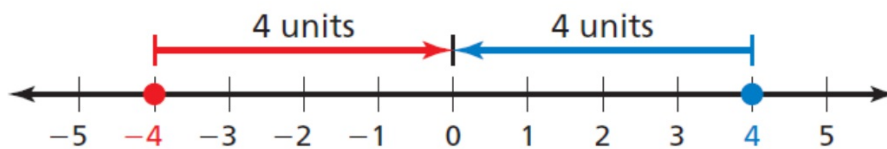


8/26 - Integers and Absolute Value - Day 1

What is **absolute value**?

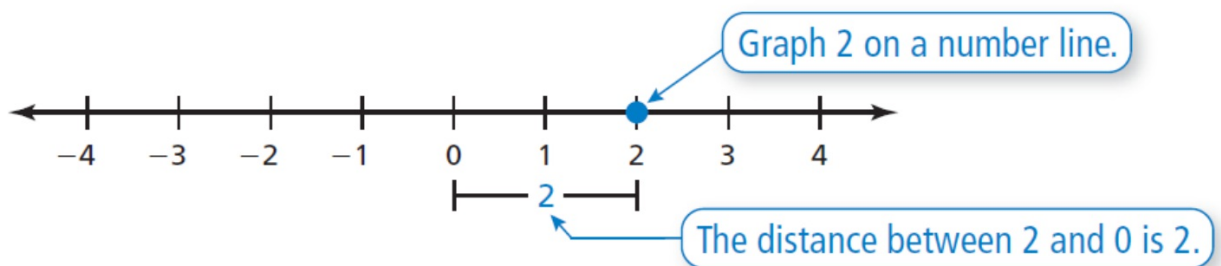
How far the # is away from 0

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 $|a|$.



always positive except for 0

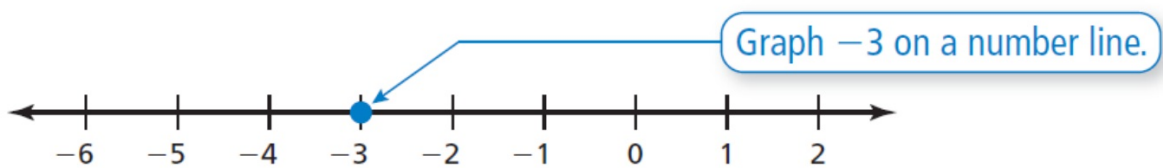
Find the absolute value of 2.



∴ So, $|2| = 2$.

Count spaces!

Find the absolute value of -3 .



3 spaces

$$|-3| = 3$$

absolutely
it contains
absolute
value

$$|-3| \text{ or } |-3|$$

↑
could mean
| minus 3 |

● On Your Own

Find the absolute value of the integer.

1. $|7|$

$= 7$

2. $|-1|$

$= 1$

3. $|-5|$

$= 5$

4. $|14|$

$= 14$

Compare 1 and $|-4|$. $=$ $<$ $>$

Graph 1 on a number line.

Graph $|-4| = 4$ on a number line.



1 is to the left of $|-4|$.

#'s to the right are bigger
than #'s to the left

$$1 < \underbrace{|-4|}_{4}$$

● **On Your Own**

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

5. $\underbrace{|-2|}_2 > -1$

6. $-7 < \underbrace{|6|}_6$

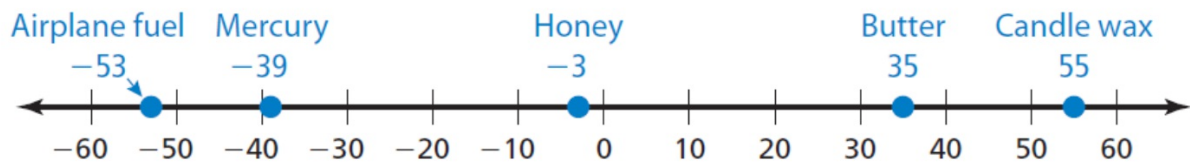
7. $\underbrace{|10|}_{10} < 11$

8. $9 = \underbrace{|-9|}_9$

| Substance | Freezing Point (°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.

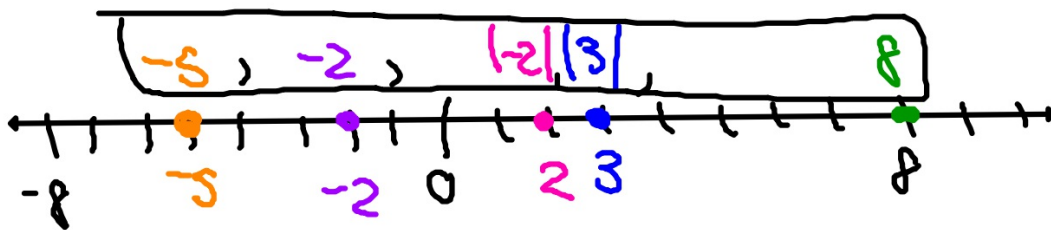
- Which substance in the table has the lowest freezing point?
- Is the freezing point of mercury or butter closer to the freezing point of water, 0°C?



Order these numbers from least to greatest:

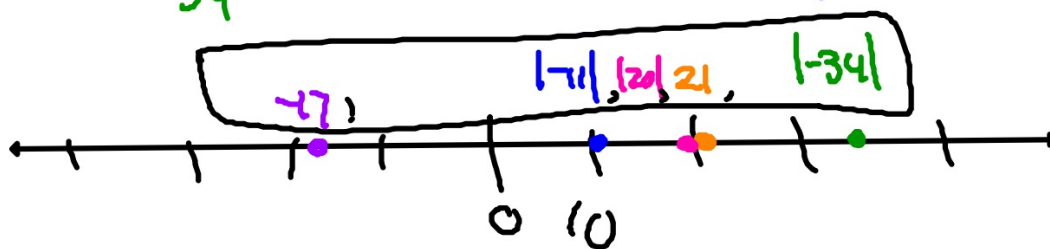
$$\underline{8}, \underline{|3|}, \underline{-5}, \underline{|-2|}, \underline{-2}$$

$= 3$ $= 2$



Order these numbers from least to greatest:

$$\underbrace{|-34|}_{=34}, \underbrace{21}_{=21}, \underbrace{-17}_{=-17}, \underbrace{|20|}_{=20}, \underbrace{|-11|}_{=11}$$



Homework

White WS: Practice 1.1

Due Wednesday