

Key Concept and Vocabulary

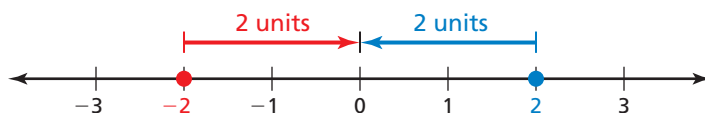
The **absolute value** of a number is the distance between the number and 0 on a number line. The absolute value of a number is written as $|a|$.

$$|-5| = 5 \quad |5| = 5$$



Visual Model

$$|-2| = 2 \quad |2| = 2$$



Skill Examples

- $|12| = 12$
- $|-8| = 8$
- $|-22| = 22$
- $|0| = 0$
- $|-4.2| = 4.2$

Application Example

6. The table shows the elevations of two people at the ocean. Which person is farther from sea level?

Person	Elevation (feet)
A	-4
B	3

Person A: $|-4| = 4$

Person B: $|3| = 3$

Because 4 is greater than 3, Person A is farther from sea level.

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Find the absolute value.

- $|18| = 18$
- $|-1| = 1$
- $|-9| = 9$
- $|1.8| = 1.8$
- $|-5.5| = 5.5$
- $|\frac{-3}{4}| = \frac{3}{4}$
- $|1\frac{2}{3}| = 1\frac{2}{3}$
- $|\frac{-8}{5}| = \frac{8}{5}$

Complete the statement using $<$, $>$, or $=$.

- $|-13| \boxed{=} |13|$
- $|-5| \boxed{<} 8$
- $|-12.1| \boxed{>} |-10.9|$

TEMPERATURE CHANGE The table shows the change in temperature each hour for 4 hours.

- In which hour did the temperature increase the most? Hour 3
- In which hour did the temperature decrease the most? Hour 1
- In which hour did the temperature change the most? Hour 3
- In which hour did the temperature change the least? Hour 4

Hour	Change in Temperature (°F)
1	-5
2	-2
3	6
4	4