

Key Concept and Vocabulary

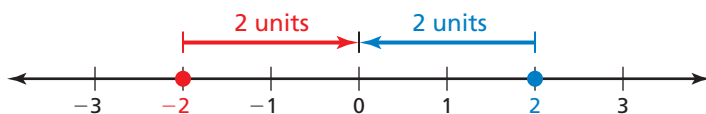
The **absolute value** of a number is the distance between the number and 0 on a number line. The absolute value of a number is written as $|a|$.



$| -5 | = 5$ $| 5 | = 5$

Visual Model

$| -2 | = 2$ $| 2 | = 2$



Skill Examples

1. $| 12 | = 12$
2. $| -8 | = 8$
3. $| -22 | = 22$
4. $| 0 | = 0$
5. $| -4.2 | = 4.2$

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.

7. $| 18 | =$ _____
8. $| -1 | =$ _____
9. $| -9 | =$ _____
10. $| 1.8 | =$ _____
11. $| -5.5 | =$ _____
12. $| -\frac{3}{4} | =$ _____
13. $| 1\frac{2}{3} | =$ _____
14. $| -\frac{8}{5} | =$ _____

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

15. $| -13 |$ $| 13 |$
16. $| -5 |$ 8
17. $| -12.1 |$ $| -10.9 |$

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

18. In which hour did the temperature increase the most? _____
19. In which hour did the temperature decrease the most? _____
20. In which hour did the temperature change the most? _____
21. In which hour did the temperature change the least? _____

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