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Absolute Value Equations Worksheets

Find the value that satisfies the following absolute value equations:

1. $|x-15| = 12$

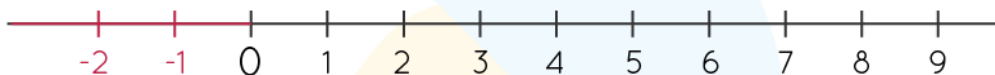
2. $|x+15| < 6$

3. $-|-20| < x$

4. $\left| -\frac{3}{8} \right| > x+3$

5. $|-23| - |45| = x + 20$

6. Compare $|-7|$ and 0 using the number line.



7. Mark's bank account's balance is less than $-\$25$. What does this mean in terms of his debt?

8. The height of a statue is 200 ft. The distance from the ground to its neck is 155 ft. Find the absolute value of the difference between 155 ft and 200 ft.

9. Find the value of $\frac{|-6 \times 8|}{|-8|} \times |-18 - 2|$.

10. The definition of the absolute value is, Then what is the value of $-|x|$ when $x < 0$?

$$|x| = \begin{cases} x & \text{if } x > 0 \\ -x & \text{if } x < 0 \end{cases}$$

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in an interesting way,
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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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