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Absolute Value Equations Worksheets

1. Find the value of $x = |-3|$ using the number line.



2. Which of the following is equal to 27?

a) $-|-27|$

b) $|-27|$

3. $|109| + |-27| - |-18| = x$, solve for x .

4. Find the value of $\left| \frac{x}{2} - \frac{y}{3} \right|$ when $x = 30$ and $y = 60$?

5. Jake had 350 kg of rice in his shop. He sold 125 kg today. Find the absolute value difference of these two weights to find the amount of rice left at his shop.

6. Find the possible value(s) of q that satisfy the equation $|q| = -10$ if any.

7. If $x < 0$, find the value of $|x| - |-x|$.

8. Which of the following values of x satisfy the equation $|x + 7| = 9$?

9. Find the value of $\frac{|-18 \times 3|}{2} - \frac{|-28|}{|-7|}$.

10. The average number of seeds in a package of sunflower seeds is 108 but it may vary by 6. Write an absolute value equation to find the maximum and minimum number of seeds in the package and solve it.

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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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