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Absolute Value Equations Worksheets

Find the the value that satisfies the following absolute value equations:

1. $|x+2| = 4$

2. $-|-101 + x| = 3$

3. Which of the following is greater?

$-|-100|, |-15|$

4. $\left| \frac{3}{4} \times \frac{1}{2} - 3 \right| + |2x| = x$

5. If $|m| = 19$, then either $m = \underline{\hspace{2cm}}$ (or) $m = \underline{\hspace{2cm}}$.

6. Machu Pichu in Peru is one of the wonders of the world. Its construction is started in the year 1438 and ended in the year 1472. Find the absolute value difference between the start year and the end year to find the number of years it took for construction.

7. $\left| 24x - \frac{3}{8} \right| + |23| - |-15| = x$, solve for x .

8. What is the value of $|x-2|$ given that $x > 2$?

9. Which of the following values satisfy the absolute value equation $|x+7| = 3$?

- a) $x = 4$ and $x = 10$
- b) $x = -4$ and $x = -10$
- c) $x = -4$ and $x = 10$

10. Amelia's car's mileage is 20 miles per one gallon of fuel. But it may vary 3 miles per one gallon depending on where she drives. Write an absolute value equation to represent this situation and solve it for the maximum and the minimum mileage.



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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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