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Absolute Values Worksheet

Questions

1. The absolute value of a number is its distance from origin and hence it is always non-negative. Use this fact to find $|-5|$. Use the following number line for the same.



2. $-|-101| = \underline{\hspace{2cm}}$

3. Which of the following is greater?

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

4. $\left| \frac{3}{4} \times \frac{1}{2} - 3 \right| = \underline{\hspace{2cm}}$

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. $\left| 24x - \frac{3}{8} \right| + |23| - |-15| = \text{_____}$

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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- 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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ANSWERS

1. 5	6. 34
2. -101	7. 17
3. $ -15 $	8. $x - 2$
4. $21/8$	9. option b)
5. 19 or -19	10. max = 23; min = 17