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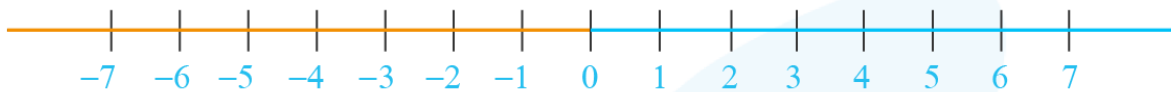
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Absolute Values Worksheet

Questions

1. The absolute value of a number is its distance from 0. Use this definition to find $|-7|$ by plotting it on the number line.

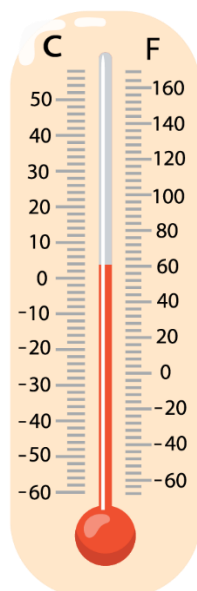


2. $|0| = \underline{\hspace{2cm}}$

3. $-|-17| + |20| = \underline{\hspace{2cm}}$

4. Find the value of $|xy^3|$ when $x = 7$ and $y = -3$.

5. The temperature at a certain place was 45°F in the morning, 70°F in the afternoon, and 30°F in the evening. Find whether the change in temperature is more from morning to afternoon or from afternoon to evening using the absolute values.



6. Find the value of $\frac{|-7|}{|21|} \times \frac{|18|}{9} \times 4$.

7. Find the value of $\frac{|-6 \times 6|}{2} + \frac{|12|}{|-6|}$.

8. What value(s) of x satisfy the equation $|x| = 18$? Hence, derive the definition of $|x|$.

9. If $x < -1$, find the value of $|x+1|$.

10. The weights of a truck and an elephant are 80,000 pounds and 10,000 pounds respectively. Find the absolute value difference of these weights.



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- 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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ANSWERS

1. 7	6. $\frac{8}{3}$
2. 0	7. 20
3. 3	8. $x = 18$ or -18 and $ x = \begin{cases} x & \text{if } x > 0 \\ -x & \text{if } x < 0 \end{cases}$
4. 189	9. $-x-1$
5. From afternoon to evening	10. 70,000 pounds