

Practice: Understanding Positive and Negative Numbers



Student: Tilley

ID: PA-D1885379

Date: _____

Type: PRACTICE

Instructions: Complete each problem involving positive and negative numbers. Use the number line to help visualize positions, find opposites, and calculate absolute values. Show your work where appropriate.

1. What integer represents 8 degrees below zero?

Answer: _____

2. What is the opposite of +15?

Answer: _____

3. Find the absolute value: $|-7|$

Answer: _____

4. Which number is further from zero on the number line: -12 or +9?

Answer: _____

5. What integer represents a gain of 25 points?

Answer: _____

6. Find the absolute value: $|0|$

Answer: _____

7. What is the opposite of the opposite of -6?

Answer: _____

8. Order these integers from least to greatest: 4, -8, 0, -2, 7

Answer: _____

9. A submarine is 45 feet below sea level. What integer represents its position?

Answer: _____

10. Find the absolute value: $|+13|$

Answer: _____

11. Which integer is between -5 and -3 on the number line?

Answer: _____

Show your work:

12. Sarah's bank account shows a balance of -\$18. She deposits \$25. Express both amounts as integers.

Answer: _____

Show your work:

13. Find: $|-24| + |+8|$

Answer: _____

Show your work:

14. What is the distance between -9 and +9 on the number line?

Answer: _____

Show your work:

15. True or False: The absolute value of any integer is always positive.

Answer: _____

Show your work:

16. If the temperature drops 8 degrees from 3°F , what integer represents the final temperature?

Answer: _____

Show your work:

17. Find all integers whose absolute value is 11.

Answer: _____

Show your work:

18. Order from greatest to least: $|-6|$, -10 , $|+4|$, $|-1|$

Answer: _____

Show your work:

19. What is the opposite of $|-15|$?

Answer: _____

Show your work:

20. A football team gains 12 yards, then loses 8 yards, then loses 15 yards. Express each change as an integer.

Answer: _____

Show your work:

21. Find the value of $-|-7|$

Answer: _____

Show your work:

22. If $|x| = 16$, what are all possible values of x ?

Answer: _____

Show your work:

23. The difference between the absolute values of two opposites is always what number?

Answer: _____

Show your work:

24. A mountain peak is 847 feet above sea level, and a cave is 234 feet below sea level. What is the difference in their distances from sea level?

Answer: _____

Show your work:

25. Evaluate: $| -(-|+9|) |$

Answer: _____

Show your work: