

Practice: Understanding Positive and Negative Numbers



Student: Your Daughter's Name

ID: PA-0E929255

Date: _____

Type: PRACTICE

Instructions: Solve each problem involving positive and negative numbers, number lines, opposites, and absolute value. 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 farther from zero on a number line: -9 or 6?

Answer: _____

5. What is the opposite of -12?

Answer: _____

6. Find the absolute value: $|23|$

Answer: _____

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

Answer: _____

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

Answer: _____

9. What integer is 3 units to the left of -1 on a number line?

Answer: _____

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

Answer: _____

11. Compare using $<$, $>$, or $=$: $|-6| \underline{\hspace{1cm}} |6|$

Answer: _____

Show your work:

12. What is the distance between -8 and -3 on a number line?

Answer: _____

Show your work:

13. A football team gained 12 yards, then lost 18 yards. What integers represent these plays?

Answer: _____

Show your work:

14. Find the absolute value: $|-(-9)|$

Answer: _____

Show your work:

15. Which integers have an absolute value of 11?

Answer: _____

Show your work:

16. Order these numbers from greatest to least: $|-5|$, -8 , $|3|$, $-|-4|$

Answer: _____

Show your work:

17. What integer is the same distance from 0 as -15 but in the opposite direction?

Answer: _____

Show your work:

18. A bank account had \$200, then had three transactions: -\$50, +\$75, -\$30. List all the integers involved.

Answer: _____

Show your work:

19. Compare using $<$, $>$, or $=$: $-|-7|$ ____ $-|7|$

Answer: _____

Show your work:

20. Find the value of x if $|x| = 13$ and $x < 0$

Answer: _____

Show your work:

21. What is the sum of a number and its opposite?

Answer: _____

Show your work:

22. If $|a| = 8$ and $|b| = 5$, what are all possible values of $|a| - |b|$?

Answer: _____

Show your work:

23. An elevator starts at floor 5, goes down 8 floors, then up 12 floors, then down 15 floors. If basement levels are negative, what floor is the elevator on?

Answer: _____

Show your work:

24. For what values of x is $|x| = x$?

Answer: _____

Show your work:

25. If the opposite of (the opposite of n) equals 7, what is n ?

Answer: _____

Show your work: