



Math Worksheet for 6th Grade

Intro to absolute value

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

1. Evaluate $|7|$.
2. Evaluate $|-9|$.
3. Evaluate $|0|$.
4. Evaluate $|3 - 8|$.
5. Evaluate $|-4 + 2|$.
6. Compute $|-6| + |5|$.
7. Compute $|-3 - 4|$.
8. Compute $|5| - |-2|$.
9. Evaluate $|\frac{12}{4}|$.
10. Evaluate $|\frac{1}{2}|$.
11. Evaluate $|3.6|$.
12. Evaluate $|-2.75|$.
13. Which is greater: $|-8|$ or $|7|$?
14. Which is greater: $|-0.5|$ or $|0.2|$?
15. Find $|x|$ if $x = -11$.
16. Find $|x|$ if $x = 0$.
17. If $a = -4$ and $b = 9$, find $|a| + |b|$.
18. Simplify $|-3| \times |2|$.
19. Evaluate $|-5 + 5|$.
20. Evaluate $||-6||$ (absolute value of an absolute value).
21. Solve for integer x : $|x| = 4$.
22. Give two different numbers whose absolute value is 6.
23. Give a number whose absolute value is 0.
24. A morning temperature is -12 degC. What is its absolute value?
25. If sea level is 0 and a submarine is at -150 m, how far is it from sea level?
26. A hiker is at -50 m (below sea level) and climbs to $+30$ m. How far did the hiker climb?
27. The temperature rises from -3 degC to 5 degC. By how many degrees did it change?
28. A bank balance goes from -20 to 35 . By how much did the balance change?
29. On a number line, point A is at -7 and point B is at 4 . What is the distance between A and B?
30. List two integers that have absolute value 3.
31. Evaluate $| -(-5) |$.
32. Evaluate $|4 - 9|$.



Math Worksheet for 6th Grade

Intro to absolute value

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

33. Evaluate $|(-2) \times 3|$.
34. True or False: $|a + b| = |a| + |b|$ for all a and b.
35. True or False: $|ab| = |a| \times |b|$ for all a and b.
36. If $|x| = 0$, what is x?
37. A diver goes from 10 m above sea level to 30 m below sea level. What is the total distance traveled?
38. A thermometer reads -15 degC in the morning and -7 degC in the afternoon. By how much did the temperature change?
39. Find $|-(3 + 4)|$.
40. If $|a| = 5$ and a is negative, what is a?
41. In one sentence, explain what the absolute value of a number means.
42. Which number is closer to zero: -2 or 3?
43. A mountain peak is at +2,500 m and a valley is at -1,200 m. What is the vertical distance between them?
44. Evaluate $|-0|$.
45. If $|x| = 7$ and x is positive, what is x?
46. True or False: $|-a| = |a|$.
47. Sarah lives 6 miles east of school (represented +6). Tom lives 4 miles west (represented -4). What is the distance between Sarah and Tom?
48. Find $|-2| + |5| + |-3|$.
49. Solve for x: $|x - 3| = 2$.
50. Give three pairs of numbers that have the same absolute value.