



Math Worksheet for 7th Grade

Absolute value

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

1. Find $|7|$.
2. Find $|-9|$.
3. Find $|0|$.
4. Find $|3 - 8|$.
5. Find $|-4 - 6|$.
6. Find $|-2 - (-5)|$.
7. Find $|5 + (-12)|$.
8. Find $|-3| + |4|$.
9. Find $|-8| - |-3|$.
10. Find $|\frac{1}{2}|$.
11. What is the distance between -2 and 4 on a number line?
12. What is the distance between -7 and -3?
13. What is the distance between 3 and 3?
14. What is the distance between -10 and 5?
15. Which pair is farther apart on a number line: 2 and 9, or -4 and 4?
16. Find the distance between -8 and 2.
17. Two points are 9 units apart and one is at -3. What are the possible positions of the other point?
18. Solve $|x| = 5$.
19. Solve $|x - 2| = 4$.
20. Solve $|x + 3| = 6$.
21. Solve $|2x - 6| = 4$.
22. List all integer values of x that satisfy $|x - 7| < 3$.
23. List all integers x with $|x| \leq 2$.
24. If $|a - b| = 0$, what does this tell you about a and b ?
25. True or False: $|a - b| = |b - a|$.
26. A campsite is at 200 m elevation and a mountain peak is at 850 m. What is the vertical distance between them?
27. A submarine is at -300 m and rises to -50 m. How far did it rise?
28. The temperature went from -6 degC to 4 degC. By how many degrees did the temperature change?
29. A diver went from 0 m (sea level) down to -18 m and later up to 5 m. What is the distance between the lowest and highest points?
30. Ben had 40, then his account balance became -25. By how much did his balance change?
31. City A is at -120 km and City B is at 30 km on a straight road (number line). How far apart are the cities?



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32. On a number line, one point is at -4 and another is x . If they are 7 units apart, what are the possible values of x ?
33. Find x if $|x - 2| = |x + 4|$.
34. A temperature was -12 degF at night and then rose by 20 degF. What is the new temperature?
35. Points P and Q are on a number line. $P = -15$ and their distance is 9. What are the possible values of Q?
36. Which numbers are 6 units from -2 on the number line?
37. One elevator is on floor -2 (basement 2) and another on floor 5. How many floors apart are they?
38. If $|x - 1| = 0$, what is x ?
39. Find the distance between -0.5 and 0.8.
40. The temperature dropped from 22 degC to -3 degC. By how many degrees did it change?
41. Solve the inequality $|x + 5| > 3$ and give the integer solutions.
42. Point A is at 7. If $|A - B| = 0$, what must B be?
43. If $|m - 4| = 2$ and m is an integer, what are the possible values of m ?
44. The distance between -9 and a is 14. Find a .
45. Maria moves from coordinate 12 to coordinate -3 on a number line. How far did she walk?
46. Which pair of the numbers -2, 0, 5 are farthest apart and what is that distance?
47. If $|x - 3| = |x + 3|$, what is x ?
48. A train moves from mile marker -35 to mile marker -10. How many miles did it travel?
49. Solve $|3 - x| = 9$.
50. Point A is at -5. Find all points B that are 8 units from A.