



Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Math Worksheet for 6th Grade

Comparing absolute values

Comparing absolute values on the number line

1. Which is farther from 0: -5 or 3?
2. Which is farther from 0: -2 or 2?
3. Which is farther from 0: -8 or -3?
4. Which is farther from 0: 7 or -9?
5. Order from closest to 0 to farthest: -1, 4, -3.
6. Which is nearer to 0: 0 or -6?
7. Which point is farther from 0: -10 or 10?
8. Which is farther from 0: 0 or 5?
9. Are -4 and 4 the same distance from 0?
10. Which is farther from 0: -7 or -2?
11. Which is closer to 0: 1 or -1?
12. Order from farthest to closest: -9, 2, -5.

Placing absolute values on the number line

13. What number is the position of $|-4|$ on the number line?
14. What number is the position of $|3|$ on the number line?
15. Place $|-7|$ and $|2|$: which is to the right?
16. Which number represents the point at distance 6 from 0: $|-6|$ or $|6|$?
17. What number should be plotted for $|-9|$?
18. If you plot $|-1|$ and $|0|$, which is to the right?
19. What is the value plotted for $|-10|$?
20. Which is plotted farther right: $|-2|$ or $|5|$?
21. Plot $|-3|$; what number is it?
22. What is the value of $|0|$ on the number line?

Comparing absolute values

23. Which is greater: $|-5|$ or $|2|$?
24. Which is greater: $|-4|$ or $|-6|$?
25. Compare: $|3|$ and $|-3|$ — which is larger?
26. Is $|-7| > |7|$, $<$, or $=$?
27. Which is larger: $|-1|$ or $|0|$?
28. Which is larger: $|9|$ or $|-10|$?
29. Compare: $|-12|$ and $|12|$.



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30. Which is larger: $|0.5|$ or $|-0.2|$?

31. Which is greater: $|-8|$ or $|8|$?

32. Is $|-11| < |-9|$ or $>$?

33. Which is larger: $|4|$ or $|-4|$?

34. Compare: $|-0|$ and $|1|$.

Testing solutions to absolute value inequalities

35. Is 2 a solution to $|x| < 3$?

36. Is -3 a solution to $|x| < 3$?

37. Is 3 a solution to $|x| > 3$?

38. Is -4 a solution to $|x| > 4$?

39. Is 0 a solution to $|x| > 0$?

40. Is 0 a solution to $|x| < 0$?

41. Is 5 a solution to $|x| < 5$?

42. Is -6 a solution to $|x| > 5$?

Interpreting absolute value (distance from *zero*/*simple* applications)

43. What is the distance from 0 to -5?

44. How far is 3 from 0?

45. What is $|-15|$?

46. What is $|0|$?

47. How many units apart are -2 and 2?

48. What is $|-0.7|$?

49. If a point is 8 units from 0 on the number line, what is $|x|$?

50. What is $|-100|$?