

Absolute Value

The absolute value of a number results is a positive number, like a distance.

Examples: Find the $|7|$

Find the $|-3|$

In both cases, whatever number appears on the inside is transformed to a positive number.

$$|7| = 7$$

$$|-3| = 3$$

Find the absolute value of the following:

1. $|7|$

2. $|13|$

3. $|-6|$

4. $|-20|$

5. $|\frac{1}{4}|$

6. $|- \frac{1}{2}|$

7. $|8 - 2|$

8. $|6 - 10|$

9. $|5 - 2|$

10. $|2 - 5|$

11. $|7| + |-4|$

12. $|-6| + |8|$

13. $|-6| + |-5|$

14. $|6| - |-13|$

15. $-|8|$

16. $-|-5|$

17. $-|-20|$

18. $-|4 - 6|$

19. $-|7 - 5|$

20. $-2|5 - 8|$

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State the integer that best describes each.

1. 5 yard gain
2. a withdrawal of \$40
3. the stock rose 8 points
4. 20 seconds before blastoff
5. a bill for \$15
6. a profit of \$22
7. 9° below zero
8. 125 feet below sea level
9. a bank deposit of \$35
10. sea level

Evaluate.

1. $|-7|$

2. $|15|$

3. $|0|$

4. $-|5|$

5. $-|-3|$

6. $|-7| - |4|$

7. $|-2| + |15|$

8. $|9| - |-4|$

9. $-|-101|$

10. $|-17| - |17|$

11. $|-13| + |-3|$

12. $|8| - |-7|$

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In both cases, whatever number appears on the inside is transformed to a positive number.

$$|7| = 7$$

$$|-3| = 3$$

If a negative sign appears before the absolute value sign, then you take the negative of that.

$$-|7| = -7$$

$$-|-3| = -3$$

Evaluate the following expressions

1. $|-10 + 3|$

2. $|-16 - 12|$

3. $|-9 - -20|$

4. $-|-6 + -11|$

5. $-|-9 + 2|$

6. $-|-4 + -10|$

7. $|-16 - -1|$

8. $-|1 + 0|$

9. $|-4 + 0|$

10. $-|8 - -13|$

11. $-|-5 - -13|$

12. $|-11 + -4|$

13. $|11 + 17|$

14. $|8 - 15|$

15. $-|18 - -6|$

16. $-|-11 - -5|$

17. $|11 - -2|$

18. $-|-16 + 12|$

19. $|-11 + 9|$

20. $-|-19 - -20|$

21. $|-14 - 10|$

22. $-|-2 - 6|$

23. $|-6 - 15|$

24. $|-13 - 12|$

25. $|-19 + 9|$

26. $|-11 - -5|$

27. $-|-6 + 10|$

28. $-|17 + 16|$

29. $-|4 + -14|$

30. $|2 + -11|$

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Evaluate the following expressions

1. $-|-16 - 20|$

2. $-|-14 - -12|$

3. $|16 - -6|$

4. $|19 + 6|$

5. $|-19 - -20|$

6. $-|3 + -13|$

7. $|18 - 14|$

8. $-|-11 - -19|$

9. $|-5 + -15|$

10. $-|-3 + -14|$

11. $|-12 - -9|$

12. $-|10 - -2|$

13. $-|0 + -10|$

14. $-|18 - 3|$

15. $-|-9 - -12|$

16. $-|-20 - -13|$

17. $-|-7 - 13|$

18. $-|-5 + -11|$

19. $-|5 + -1|$

20. $-|0 - 18|$

21. $-|-2 + 4|$

22. $-|-17 + -19|$

23. $-|-13 - 3|$

24. $|-10 + 17|$

25. $-|-8 - 1|$

26. $|19 - 13|$

27. $|16 - -6|$

28. $|9 + 17|$

29. $-|1 - 17|$

30. $-|17 + 14|$

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$$-|-3| = -3$$

Evaluate the following expressions

1. $-|-16 + -17|$

2. $-|-16 - 3|$

3. $|-16 + 4|$

4. $-|2 + -19|$

5. $|17 + 9|$

6. $|10 + -14|$

7. $|11 + 7|$

8. $|-9 - -8|$

9. $-|-5 + -18|$

10. $|18 - 19|$

11. $-|-11 - 9|$

12. $|17 - -13|$

13. $-|8 + -18|$

14. $-|10 + -16|$

15. $-|7 + 15|$

16. $-|10 - 1|$

17. $-|-4 - 9|$

18. $|-10 + -5|$

19. $|-3 + -9|$

20. $|-8 - -6|$

21. $|-9 + 14|$

22. $|16 - 11|$

23. $|17 - 18|$

24. $|-1 + 9|$

25. $-|-7 + -15|$

26. $|9 + 9|$

27. $-|19 - -13|$

28. $-|2 - 1|$

29. $|20 + 10|$

30. $-|-11 - -3|$