Lesson 2
Absolute Value

The _______________ _________________ of a number is the distance between the number and zero on a number line.
The symbol for absolute value is _______________
Any number in | | will be just the _______________

Examples
Evaluate each expression.

a. |−2|

b. |8| + |−6|

Exercises
Find the opposite of each integer.

1. 8
2. −10

3. −14
4. 7

Evaluate each expression.

5. |5|
6. |−3|

7. |17| − |−4|
8. |−13| − |−9|

9. |−11| − |5|
10. |−1| + |−7|
Lesson 2 Homework Practice

Absolute Value

Find the opposite of each integer.

1. 10

2. \(-25\)

3. 82

4. \(-135\)

Find the opposite of the opposite of each integer.

5. \(-4\)

6. \(-15\)

Evaluate each expression.

9. \(\lvert 31 \rvert + \lvert -5 \rvert\)

10. \(\lvert -16 \rvert - \lvert 4 \rvert\)

11. \(\lvert -28 \rvert - \lvert -1 \rvert\)

12. \(\lvert 11 - 2 \rvert\)

13. \(\lvert 44 \rvert + \lvert -34 \rvert\)

14. \(\lvert -101 \rvert - \lvert -1 \rvert\)

15. CHARITY Ms. Malone’s homeroom raised $539 for a local charity. Find the opposite of this integer.

16. GAMES Delaney scored –15 points in a word game. Find the opposite of this integer.

17. The net changes of three stocks were –3, 1, and –2. Which stock change has the greatest absolute value?
Lesson 2

Absolute Value

Opposites are numbers that are the same distance from zero in opposite directions. The absolute value of a number is the distance between the number and zero on a number line. The symbol for absolute value is | |.

Examples

Evaluate each expression.

a. |−2|

The graph of −2 is 2 units from 0.

So, −2 = 2.

b. |8| + |−6|

|8| + |−6| = 8 + |−6|  The absolute value of 8 is 8.

= 8 + 6   The absolute value of −6 is 6.

= 14   Simplify.