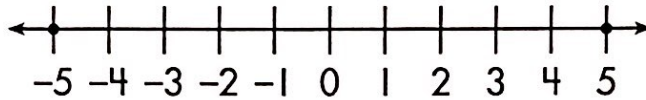


Lesson 4.1 Integers as Opposite Numbers

Every positive number has an opposite, negative number. A negative number is less than 0.



Draw a number line to show the opposite of each number.

a

1. What is the opposite of 8?
2. What is the opposite of -10 ?
3. What is the opposite of 12?
4. What is the opposite of -6 ?
5. What is the opposite of 11?
6. What is the opposite of -20 ?

b

- What is the opposite of 25?
- What is the opposite of -7 ?
- What is the opposite of -9 ?
- What is the opposite of 2?
- What is the opposite of -14 ?
- What is the opposite of 16?

Name the opposite of each number.

- | | |
|-------------------------------------|---------------------------------|
| 7. The opposite of 10 is _____. | The opposite of 1 is _____. |
| 8. The opposite of -3 is _____. | The opposite of 7 is _____. |
| 9. The opposite of -4 is _____. | The opposite of -8 is _____. |
| 10. The opposite of 13 is _____. | The opposite of -15 is _____. |
| 11. The opposite of -32 is _____. | The opposite of 27 is _____. |
| 12. The opposite of 17 is _____. | The opposite of -20 is _____. |

Lesson 4.3 Absolute Value

The **absolute value** of a number is its distance from zero.

Absolute value is represented by vertical lines on either side of an integer.

What is the absolute value of 8? $|8| = 8$

What is the absolute value of -8? $|-8| = 8$

Find the absolute value of each integer.

a

1. $|4| = \underline{\hspace{2cm}}$

2. $-|-7| = \underline{\hspace{2cm}}$

3. $-|12| = \underline{\hspace{2cm}}$

4. $|-14| = \underline{\hspace{2cm}}$

5. $|3| = \underline{\hspace{2cm}}$

6. $-|-15| = \underline{\hspace{2cm}}$

7. $|16| = \underline{\hspace{2cm}}$

8. $-|40| = \underline{\hspace{2cm}}$

9. $|33| = \underline{\hspace{2cm}}$

10. $|26| = \underline{\hspace{2cm}}$

11. $-|53| = \underline{\hspace{2cm}}$

12. $|25| = \underline{\hspace{2cm}}$

b

$|-13| = \underline{\hspace{2cm}}$

$|11| = \underline{\hspace{2cm}}$

$-|5| = \underline{\hspace{2cm}}$

$-|8| = \underline{\hspace{2cm}}$

$|-7| = \underline{\hspace{2cm}}$

$|9| = \underline{\hspace{2cm}}$

$|-6| = \underline{\hspace{2cm}}$

$-|-24| = \underline{\hspace{2cm}}$

$-|-41| = \underline{\hspace{2cm}}$

$|-18| = \underline{\hspace{2cm}}$

$|-21| = \underline{\hspace{2cm}}$

$-|-21| = \underline{\hspace{2cm}}$

c

$-|10| = \underline{\hspace{2cm}}$

$|-2| = \underline{\hspace{2cm}}$

$|1| = \underline{\hspace{2cm}}$

$-|-13| = \underline{\hspace{2cm}}$

$-|4| = \underline{\hspace{2cm}}$

$|-12| = \underline{\hspace{2cm}}$

$-|20| = \underline{\hspace{2cm}}$

$|17| = \underline{\hspace{2cm}}$

$|-19| = \underline{\hspace{2cm}}$

$-|35| = \underline{\hspace{2cm}}$

$|30| = \underline{\hspace{2cm}}$

$|-47| = \underline{\hspace{2cm}}$