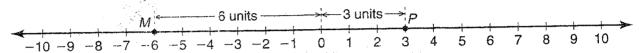
# **Understanding Integers**

#### Negative integers

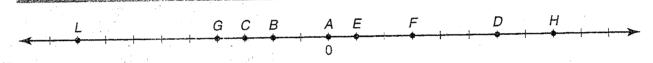
These are the opposites of positive integers. Zero is neither positive nor negative. The opposite of 0 is 0. Positive integers These are also called the counting numbers.

The absolute value of an integer is its distance from zero. Absolute value is always positive. The absolute value of -6 is written like this: |-6|.



On the number line above, point M is located at -6. Because it is 6units from 0, its absolute value is 6.

Point P is located at 3 on the number line. Because it is 3 units from 0. its absolute value is 3.



For 1-9, use the number line above. Write the integer for each point. Then give its opposite and absolute values.

1. B

2. H

3. C

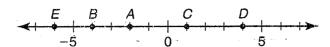
8. D

- 10. Number Sense John borrowed \$6 from Adam. The next week John borrowed \$15 more from Adam. Write an integer that represents John's total debt to Adam.

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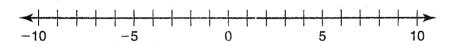
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## Understanding Integers



Use the number line. Write the integer for each point. Then give its opposite and absolute value.

- **4.** *D* \_\_\_\_\_\_ **5.** *E* \_\_\_\_\_
- **6.** On the number line, graph the points -8, 3, -4, 2, and -1.



The table gives the highest and lowest temperatures for some states in the United States. Use integers to describe the two temperatures for each state.

# (in degrees, relative to zero)

State	Highest	Lowest
Alabama	112 above	27 below
Delaware	110 above	17 below
Hawaii	100 above	12 above
Colorado	118 above	61 below

**Record Temperatures** 

- 7. Delaware
- 8. Hawaii
- 9. Colorado
- 10. Alabama

### **Test Prep**

- 11. Which is an integer?
  - **A.** -0.5
- **B.** -5
- C. 5.5
- **D**.  $5\frac{4}{5}$
- 12. Writing in Math In your own words, tell what is meant by "the absolute value of an integer."