

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 2.2 Absolute Value

**Draw a number line from  $-8$  to  $8$ . Then use the number line to find the absolute value of each of the following numbers.**

1.  $|-7|$  \_\_\_\_\_

2.  $|-3|$  \_\_\_\_\_

3.  $|8|$  \_\_\_\_\_

**Write the absolute value of each number.**

4.  $|-9|$  \_\_\_\_\_

5.  $|-2|$  \_\_\_\_\_

6.  $|100|$  \_\_\_\_\_

7.  $|-299|$  \_\_\_\_\_

8.  $|802|$  \_\_\_\_\_

9.  $|-341|$  \_\_\_\_\_

**Complete each inequality using  $>$  or  $<$ .**

10.  $|-18|$    $|-24|$

11.  $|-30|$    $|-40|$

12.  $|100|$    $|-200|$

13.  $|-280|$    $|190|$

14.  $|-650|$    $|-480|$

15.  $|570|$    $|-400|$

**Answer the questions.**

16. Two numbers have an absolute value of 37. Which of the two numbers is farther from 1 on the number line?

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**17.** Keith has  $-\$190$  in his savings account. Aisha has  $\$80$  in her savings account and Sonya has  $-\$250$  in her savings account.

**a)** Who has the most amount of money in their savings account?

**b)** Who has the least amount of money in their savings account?

**18.** A helicopter is flying at 155 meters above sea level. A flock of birds is flying 80 meters below the helicopter. A submarine is 185 meters below sea level. A group of divers are diving along a reef at 162 meters above the submarine.

**a)** What is the vertical distance between the helicopter and the submarine?

**b)** How far below sea level are the divers?

**c)** How far above the divers is the flock of birds?

**d)** Which is closer to the sea level: the divers or the birds? By how many meters?

**e)** Which is closer to the divers: the helicopter or the submarine? By how many meters?

**f)** Order the helicopter, birds, divers, and submarine from the closest to sea level to the farthest.

