Name Date

Practice A

1.1

Find the absolute value.

 1.  2.  3.  4. 

Copy and complete the statement using  or 

 5.   2 6. 7   7.   5

 8. While playing a game, you move back 5 spaces with your roll of the number cube. Your friend moves forward 3 spaces. Write each amount as an integer.

Order the values from least to greatest.

 9. –1, , , 8,  10. , 0, , 6, 

Simplify the expression.

 11.  12.  13. 

 14. You are kite sailing on the ocean. The table gives your height at
different times.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time (seconds)** | 0 | 1 | 2 | 3 |
| **Height (feet)** | 2 | 4 | 6 | 8 |

 a. How many feet do you move each second?

 b. What is your speed? Give the units.

 c. Is your velocity positive or negative?

 d. What is your velocity? Give the units.

 15. Use a number line.

 a. Graph and label the following points on a number line:   What word do the letters spell?

 b. Graph and label the absolute value of each point in part (a). What word do the letters spell now?

 16. Write an integer whose absolute value is greater than itself.

Name Date

Practice B

1.1

Copy and complete the statement using   or 

 1.   23 2.    3.   52

 4. You and your friend are swimming against the current. You move forward 15 feet. Your friend is not a strong swimmer, so he moves back 6 feet. Write each amount as an integer.

Order the values from least to greatest.

 5.  6. 

Simplify the expression.

 7.  8.  9. 

 10. The boiling point of a liquid is the temperature at which the vapor pressure of the liquid equals the environmental pressure surrounding the liquid.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substance** | Hydrogen | Oxygen | Iodine | Phosphorus |
| **Boiling Point (°C)** | –253 | –183 | 184 | 280 |

 a. Which substance in the table has the highest boiling point?

 b. Is the boiling point of oxygen or iodine closer to 0°C?

 11. You are riding on a rollercoaster.

 a. Your velocity is 13 feet per second. Are you moving up or
moving down?

 b. What is your speed in part (a)? Give the units.

 c. Your velocity is  feet per second. Are you moving up or
moving down?

 d. What is your speed in part (c)? Give the units.

 12. There is one integer for which there does not exist another integer with the same absolute value. What is that integer?

Determine whether the statement is *true* or *false*. Explain your reasoning.

 13. The absolute value of 3 above par is the same as the absolute value of 3 below par.

 14. If  then 