

# B Appendix Test

Find the absolute value of the integer.

1.  $-7$

2.  $-11$

Which number is greater? Explain.

3.  $-\frac{1}{2}$ ,  $-\frac{1}{10}$

4.  $2.3$ ,  $-2.1$

Use a number line to find the sum or difference.

5.  $-1 + 3$

6.  $-2 - 3$

7.  $-3\frac{1}{10} - 1\frac{1}{5}$

8.  $-7.25 + 4$

Plot the ordered pair in a coordinate plane. Describe the location of the point.

9.  $Q(-2, -1)$

10.  $S(-6, 3)$

11. Make an input-output table for the function  $y = x + 4$ . Use the inputs  $-2$ ,  $-1$ ,  $0$ ,  $1$ , and  $2$ . Then draw the graph of the function.

12. **POOL** A diver is on a springboard that is 3 meters above the surface of a pool. Another diver is 2 meters below the surface of the pool.

- Write an integer for the position of each person relative to the surface of the pool.
- Find the absolute value of each integer.
- Who is farther from the surface of the pool?

13. **MINNESOTA** You visit a friend in Minnesota. From 8 A.M., the temperature rises  $24^\circ\text{F}$  in 12 hours. The temperature at 8 P.M. is  $7^\circ\text{F}$ . What was the temperature at 8 A.M.? Explain.

14. **OPEN-ENDED** Two vertices of a triangle are  $F(1, -4)$  and  $G(6, -4)$ . List two possible coordinates of the third vertex so that the triangle has an area of 20 square units.

15. **HIKE** The table shows the number of kilometers you hike one afternoon. Graph the function shown by the table. Write an equation for the function.

Hours, $h$	1	2	3	4
Distance (km), $d$	4	8	12	16

