

**6.2 Practice A**

Copy and complete the statement using  $<$  or  $>$ .

1.  $-4$  ?  $0$

2.  $7$  ?  $0$

3.  $3$  ?  $-3$

4.  $-6$  ?  $2$

5.  $5$  ?  $9$

6.  $-8$  ?  $-2$

7. Describe and correct the error in comparing 2 and  $-5$ .

|                                   |
|-----------------------------------|
| $\times$ $2 < 5$ . So, $2 < -5$ . |
|-----------------------------------|

Order the integers from least to greatest.

8.  $0, -2, 2, 3, -3$

9.  $1, -3, 4, -4, 2$

10.  $3, -4, 4, 5, -5$

11.  $6, -3, 1, 4, -5$

12. A water pipe is 3 feet below the ground. A gas pipe is 8 feet below the ground. Which pipe is higher? Explain your answer.

13. A number is between  $-1$  and  $-5$ . What is the least possible integer value of its opposite?

Tell whether the statement is *always*, *sometimes*, or *never* true. Explain.

14. A negative integer is greater than its opposite.

15. An integer is more than its opposite and less than 0.

16. An integer is less than its opposite.

17. Nine students choose integers. Seven of them are

$$-16, 12, -13, -6, -5, 6, \text{ and } 1.$$

- a. Order the numbers from least to greatest.

- b. When all nine integers are ordered from least to greatest, the middle integer is  $-6$ . Describe the other two integers.

