## 10-2 Skills Practice

## The Real Number System

Name all of the sets of numbers to which each real number belongs. Let W = whole numbers, Z = integers, Q = rational numbers, and I = irrational numbers.

4. 
$$\frac{1}{8}$$

10. 
$$-\frac{32}{4}$$

5. 
$$\frac{1}{9}$$

$$3. -5$$

9. 
$$\frac{25}{3}$$

Determine whether each statement is sometimes, always, or never true.

- 16. A whole number is a rational number.
- 17. A rational number is a whole number.
- 18. A negative number is an integer.
- Zero is an irrational number.

Replace each with <, >, or = to make a true statement.

20. 
$$\sqrt{4}$$
 •  $2\frac{3}{7}$ 

21. 
$$\sqrt{5}$$
 • 2.1

Order each set of numbers from least to greatest.

**26.** 
$$5\frac{1}{3}$$
, 5.3,  $\sqrt{28}$ ,  $2\frac{1}{4}$ 

**27.** 
$$\sqrt{53}$$
,  $7\frac{1}{4}$ ,  $\frac{36}{5}$ , 7.27

**28.** 
$$-9.35$$
,  $-\sqrt{72.75}$ ,  $-9\frac{2}{10}$ ,  $-9$