## Assignment 38

## 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.

1. 12
2. 25
3. -5
4. $\frac{1}{8}$
5. $\frac{1}{9}$
6. 0.343434 ..
7. $\sqrt{31}$
8. $\sqrt{7}$
9. $\frac{25}{3}$
10. $-\frac{32}{4}$
11. 6.54
12. 24.6
13. 418
14. 0
15. $0.050050005 \ldots$

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.
19. 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
22. $-\sqrt{12}-3.5$
23. $\sqrt{104.04}-10.2$
24. $7.8 \ominus \sqrt{55}$
25. $15.1 \odot \sqrt{231}$

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

