## Quiz for Lessons 1-1 Through 1-5

## 1-1 Variables and Expressions

Give two ways to write each algebraic expression in words.

1. $4+n$
2. $m-9$
3. $\frac{g}{2}$
4. $4 z$
5. Bob earns $\$ 15$ per hour. Write an expression for the amount of money he earns in $h$ hours.
6. A soccer practice is 90 minutes long. Write an expression for the number of minutes left after $m$ minutes have elapsed.

Evaluate each expression for $x=3, y=6$, and $z=2$.
7. $y \div z$
8. $x y$
9. $x+y$
10. $x-z$

## $\nabla$

## 1-2 Adding and Subtracting Real Numbers

Add or subtract.
11. $81+(-15)$
12. $27-32$
13. $2-\left(-1 \frac{1}{4}\right)$
14. $x+(-14)$ for $x=-7$
15. Brandon's bank statement shows a balance of $-\$ 45.00$. What will the balance be after Brandon deposits $\$ 70.00$ ?

## 1-3 Multiplying and Dividing Real Numbers

Find the value of each expression if possible.
16. $9(-9)$
17. $6 \div \frac{3}{5}$
18. $9.6 \div 0$
19. $-\frac{1}{2} x$ for $x=-\frac{1}{2}$
20. Simon drove for $2 \frac{1}{2}$ hours to get from his house to the beach. Simon averaged 55 miles per hour on the trip. What is the distance from Simon's house to the beach?

## 1-4 Powers and Exponents

Simplify each expression.
21. $(-3)^{2}$
22. $-3^{2}$
23. $\left(-\frac{2}{3}\right)^{3}$
24. $\left(-\frac{1}{2}\right)^{5}$
25. The number of bytes in a kilobyte is 2 to the 10th power. Express this number in two ways.

## 1-5 Square Roots and Real Numbers

Find each square root.
26. $\sqrt{225}$
27. $-\sqrt{49}$
28. $\sqrt{144}$
29. $\sqrt{\frac{16}{25}}$
30. Mindy is building a patio that is in the shape of a square. The patio will cover 56 square yards. Find the length of a side of the patio to the nearest tenth of a yard.

Classify each real number. Write all classifications that apply.
31. $\frac{1}{11}$
32. $\sqrt{12}$
33. $\sqrt{400}$
34. -6

