AGILLAND REAL WINNERS

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

7.
$$\sqrt{31}$$

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

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

8.
$$\sqrt{7}$$

$$3. -5$$

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.

19. Zero is an irrational number.

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

20.
$$\sqrt{4} \oplus 2\frac{3}{7}$$

22.
$$-\sqrt{12}$$
 @ -3.5

24. 7.8
$$\sqrt{55}$$

21.
$$\sqrt{5}$$
 @ 2.1

23.
$$\sqrt{104.04}$$
 @ 10.2

25. 15.1
$$\textcircled{0}$$
 $\sqrt{231}$

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

ALGEBRA Solve each equation. Round to the nearest tenth, if necessary.

29.
$$a^2 = 64$$

30.
$$d^2 = 169$$

31.
$$f^2 = 441$$

32.
$$76 = g^2$$

33.
$$115 = h^2$$

34.
$$k^2 = 450$$

35.
$$b^2 = 4.41$$

36.
$$y^2 = 0.36$$

37.
$$m^2 = 0.0025$$