## **Practice 1-1**

**Properties of Real Numbers** 

Simplify.

**3.** 
$$\left| -\frac{7}{6} \right|$$

**5.** 
$$\frac{2}{3}$$

Replace each \$ with the symbol <, >, or = to make the sentence true.

**9.** 
$$-\sqrt{6} \$ \sqrt{10}$$
 **10.**  $\frac{3}{2} \$ 1.5$ 

**10.** 
$$\frac{3}{2}$$
 \$ 1.5

**14.** 
$$-|-7| \$ |-7|$$
 **15.**  $0.9 \$ \frac{2}{3}$ 

**15.** 0.9 \$ 
$$\frac{2}{3}$$

**16.** 
$$\sqrt{2} \$ \sqrt{5}$$

Name all the sets of numbers to which each number belongs.

**19.** 
$$\sqrt{5}$$

**22.** 
$$\frac{10}{7}$$

**24.** 
$$-\frac{4}{2}$$

Name the property of real numbers illustrated by each equation.

**25.** 
$$\pi + 3 = 3 + \pi$$

**26.** 
$$\sqrt{2} + 0 = \sqrt{2}$$

**27.** 
$$(2 + x) + 3 = 2 + (x + 3)$$

**28.** 
$$\frac{5}{9} \cdot \frac{9}{5} = 1$$

**29.** 
$$16(3t + 4v) = 48t + 64v$$

**30.** 
$$\sqrt{2} \cdot 3 = 3 \cdot \sqrt{2}$$

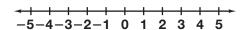
**31.** 
$$0.01 \cdot 1 = 0.01$$

**32.** 
$$\frac{3}{2} \cdot \frac{2}{3} = 1$$

**33.** 
$$7 + (-7) = 0$$

**34.** 
$$2(xy) = (2x)y$$

Graph the number on the following number line. Estimate if necessary.



**35.** 
$$-\sqrt{2}$$

**36.** 
$$\frac{3}{2}$$

Find the opposite and the reciprocal of each number.

**39.** 
$$-2\frac{1}{2}$$

**41.** 
$$\frac{5}{9}$$

Which set of numbers best describes the values of each variable?

**43.** the number of stops N a commuter train makes on a certain day

**44.** the high H and low L for a certain stock during a period of n weeks

**45.** the average time per lap t it takes a race car to complete n laps