Lesson 1-1 Find the opposite of each number.

1. 7

5. 24

Compare using <, =, or >.

Lesson 1-2 Find each sum or difference.

10.
$$33 + (-17)$$

11.
$$-12 + (-6)$$

12.
$$82 + 10$$

14.
$$-7 - (-4)$$

15.
$$19 - (-9)$$

16.
$$-40 - 22$$

10.
$$33 + (-17)$$
 11. $-12 + (-6)$ **12.** $82 + 10$ **13.** $-75 + 14$ **14.** $-7 - (-4)$ **15.** $19 - (-9)$ **16.** $-40 - 22$ **17.** $-4 - (-100)$

Lesson 1-3 Find each product or quotient.

18.
$$-8 \times (-9)$$

19.
$$30(-4)$$

22.
$$48 \div (-4)$$

23.
$$\frac{-37}{-1}$$

18.
$$-8 \times (-9)$$
 19. $30(-4)$ **20.** $-13 \cdot 4$ **21.** (15) **22.** $48 \div (-4)$ **23.** $\frac{-37}{-1}$ **24.** $-\frac{68}{2}$ **25.** $\frac{98}{14}$

25.
$$\frac{98}{14}$$

Lessons 1-4, 1-5 Write each fraction as a decimal.

26.
$$\frac{2}{3}$$

27.
$$\frac{3}{25}$$

28.
$$\frac{7}{4}$$

26.
$$\frac{2}{3}$$
 27. $\frac{3}{25}$ **28.** $\frac{7}{4}$ **29.** $\frac{7}{12}$ **30.** $\frac{6}{15}$

30.
$$\frac{6}{15}$$

Order from greatest to least.

31.
$$-1$$
, 0.15 , $\frac{1}{5}$

31. -1, 0.15,
$$\frac{1}{5}$$
 32. $\frac{3}{11}$, $-\frac{1}{4}$, -0.1 **33.** -0.3, $\frac{3}{8}$, $\frac{7}{20}$

33.
$$-0.3, \frac{3}{8}, \frac{7}{20}$$

Lesson 1-6 Simplify.

34.
$$-\frac{7}{8} + \left(-\frac{5}{8}\right)$$

34.
$$-\frac{7}{8} + \left(-\frac{5}{8}\right)$$
 35. $13.7 - 15$ **36.** $1\frac{1}{6} - \left(-\frac{2}{3}\right)$ **37.** $-4.59 + 5.49$

Lessons 1-7, 1-8 Simplify.

38.
$$\left(-\frac{7}{10}\right)\left(-\frac{5}{8}\right)$$
 39. $25.5 \div (-0.5)$ **40.** $-0.17 \cdot 1.8$ **41.** $\frac{5}{6} \div \left(-\frac{4}{9}\right)$

41.
$$\frac{5}{6} \div \left(-\frac{4}{9}\right)$$

• Lesson 2-1 Evaluate each expression for a = -2, b = 8, and c = 5.

1.
$$c - b$$

3.
$$\frac{1}{2} + 2c$$
 4. $\frac{b}{a}$

Write an algebraic expression for each word phrase.

5. 50 meters longer than x meters

6. driving r miles per hour for 2.5 hours

7. 42 students divided equally into t teams

8. 3 years younger than Matt's age, a

Lesson 2-2 Simplify each expression.

9.
$$2r + 7 + r$$

10.
$$14 - 2x - 3$$

11.
$$4(1.5 - 3p)$$

9.
$$2r + 7 + r$$
 10. $14 - 2x - 5$ 11. $4(1.5 - 3p)$ 12. $\frac{1}{4}n + 1 + \frac{1}{2}n - 5$

Lesson 2-3 Use inverse operations to solve each equation. Check your answer.

13
$$t - 13 = -20$$

14.
$$17 + d = -7$$

13.
$$t - 13 = -29$$
 14. $17 + d = -7$ **15.** $d + 112 = 159$ **16.** $y - 68 = 94$

16.
$$v - 68 = 94$$

17.
$$\frac{m}{5} = -15$$

18.
$$-7y = -42$$

19.
$$0.4t = 16$$

17.
$$\frac{m}{5} = -15$$
 18. $-7y = -42$ **19.** $0.4t = 16$ **20.** $\frac{x}{12} = -8$

Lesson 2-4 Solve each equation using number sense.

21.
$$7t + 5 = 40$$

22.
$$2d - 12 = 18$$

23.
$$5w - 18 = 7$$

22.
$$2d - 12 = 18$$
 23. $5w - 18 = 7$ **24.** $\frac{z}{4} + 5 = 15$

Lesson 2-5 Solve each equation using inverse operations. Check your answer.

25.
$$\frac{r}{-6} + 4 = 3$$

26.
$$12m + 24 = 0$$

27.
$$-6g - 9 = 15$$

25.
$$\frac{r}{-6} + 4 = 3$$
 26. $12m + 24 = 0$ **27.** $-6g - 9 = 15$ **28.** $\frac{k}{-3} - 2 = -20$

Lesson 2-6 Use the distributive property to solve each equation.

29.
$$3(n+2) = -6$$

30.
$$-2(4-x) = 10.4$$

31.
$$\frac{1}{2}(2s+8)=14$$

Lesson 4-1 Write each fraction in simplest form.

1.
$$\frac{20 \text{ in.}}{6 \text{ ft}}$$

Lesson 4-2 Find each unit rate.

6.
$$\frac{1}{2} \min \frac{1}{5} h$$

7.
$$\frac{3}{8}$$
 lb in $\frac{2}{3}$ box

Lesson 4-3 By using cross products, tell whether the ratios can form a proportion.

8.
$$\frac{4}{3}$$
, $\frac{12}{9}$

9.
$$\frac{8}{5}$$
, $\frac{11}{7}$

10.
$$\frac{21}{6}$$
, $\frac{7}{2}$

11.
$$\frac{6}{24}$$
, $\frac{2}{4}$

9.
$$\frac{8}{5}$$
, $\frac{11}{7}$ 10. $\frac{21}{6}$, $\frac{7}{2}$ 11. $\frac{6}{24}$, $\frac{2}{4}$ 12. $\frac{50}{6}$, $\frac{3}{2}$

Lesson 4-4 Solve each proportion using cross products.

13.
$$\frac{12}{a} = \frac{3}{5}$$

14.
$$\frac{n}{12} = \frac{4}{16}$$

15.
$$\frac{7}{8} = \frac{n}{4}$$

16.
$$\frac{7}{10} = \frac{14}{a}$$

13.
$$\frac{12}{a} = \frac{3}{5}$$
 14. $\frac{n}{12} = \frac{4}{16}$ **15.** $\frac{7}{8} = \frac{n}{4}$ **16.** $\frac{7}{10} = \frac{14}{a}$ **17.** $\frac{7}{n} = \frac{17.5}{5}$

Lesson 5-1

Write each ratio as a percent.

1.
$$\frac{4}{5}$$

2.
$$\frac{11}{5}$$

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

4.
$$\frac{19}{20}$$
 5. $\frac{1}{10}$

5.
$$\frac{1}{10}$$

6.
$$\frac{3}{2}$$

Write each percent as a decimal.

Write each percent as a fraction in simplest form.

Lesson 5-2 Write a proportion and solve.

Lesson 5-3 Write and solve an equation to find the part of a whole.

Lesson 5-4 Find each payment.

Lesson 5-5 Find the interest earned for each account.

- 34. deposit \$1,100; earns 5% simple interest; interest earned in 5 years
- 35. deposit \$2,400; earns 4.5% simple interest; interest earned in 6 years

Lesson 5-6 Find each percent of change. Round to the nearest tenth. State whether the change is an increase or a decrease.