

Get Ready!

Lesson 1-3

Simplifying Expressions

Simplify by combining like terms.

1. $7s - s$

2. $3a + b + a$

3. $xy - y + x$

4. $0.5g + g$

5. $4t - (t + 3t)$

6. $b - 2(1 + c - b)$

7. $5f - (5d - f)$

8. $2(h + 2g) - (g - h)$

9. $-(3z - 5) + z$

10. $(2 - d)g - 3d(4 + g)$

11. $5v - 3(2 - v)$

12. $7t - 3s(2 + t) + s$

Lesson 1-4

Solving Equations

Solve each equation.

13. $4 + x = -52$

14. $-y + 13 = -67$

15. $12 = 2 - k$

16. $3x = -72$

17. $\frac{h}{5} = 215$

18. $64 = 4 + 12g$

19. $5 - 4t = 12$

20. $7x - 9 = x$

21. $3(w - 8) = 36$

22. $-10p = 2(p - 12)$

23. $3(2 - c) = -(c + 4)$

24. $7 + b = 11(b - 3)$

Lesson 1-6

Solving Absolute Value Inequalities

Solve each absolute value inequality. Graph the solution.

25. $|x - 3| < 5$

26. $|2a - 1| \geq 2a + 1$

27. $|3x + 4| > -4x - 3$

28. $|3x + 1| + 1 > 12$

29. $3|d - 4| \leq 13 - d$

30. $-\frac{1}{3}|f + 3| + 2 \geq -5$



Looking Ahead Vocabulary

31. A person's field of study is often called that person's *domain*. If your domain is American history, what topics might you be interested in?
32. When is a person's height likely to show a greater *rate of change*, from 1 to 2 years of age or from 30 to 31 years of age? Explain.
33. When you look in the mirror, you see your *reflection*. How does the image in the mirror differ from the way other people see you? How is it the same?
34. The boundaries of a country determine the limit of the country's land. How does an inequality form a *boundary* on a number line?