

GUIDED PRACTICE

SEE EXAMPLE 1

p. 92

Solve each equation. Check your answer.

1. $4a + 3 = 11$

2. $8 = 3r - 1$

3. $42 = -2d + 6$

4. $x + 0.3 = 3.3$

5. $15y + 31 = 61$

6. $9 - c = -13$

SEE EXAMPLE 2

p. 93

7. $\frac{x}{6} + 4 = 15$

8. $\frac{1}{3}y + \frac{1}{4} = \frac{5}{12}$

9. $\frac{2}{7}j - \frac{1}{7} = \frac{3}{14}$

10. $15 = \frac{a}{3} - 2$

11. $4 - \frac{m}{2} = 10$

12. $\frac{x}{8} - \frac{1}{2} = 6$

SEE EXAMPLE 3

p. 93

13. $28 = 8x + 12 - 7x$

14. $2y - 7 + 5y = 0$

15. $2.4 = 3(m + 4)$

16. $3(x - 4) = 48$

17. $4t + 7 - t = 19$

18. $5(1 - 2w) + 8w = 15$

SEE EXAMPLE 4

p. 94

19. **Transportation** Paul bought a student discount card for the bus. The card cost \$7 and allows him to buy daily bus passes for \$1.50. After one month, Paul spent \$29.50. How many daily bus passes did Paul buy?

SEE EXAMPLE 5

p. 95

20. If $3x - 13 = 8$, find the value of $x - 4$.

21. If $3(x + 1) = 7$, find the value of $3x$.

22. If $-3(y - 1) = 9$, find the value of $\frac{1}{2}y$.

23. If $4 - 7x = 39$, find the value of $x + 1$.

PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
24–29	1
30–35	2
36–41	3
42	4
43–46	5

Solve each equation. Check your answer.

24. $5 = 2g + 1$

25. $6h - 7 = 17$

26. $0.6v + 2.1 = 4.5$

27. $3x + 3 = 18$

28. $0.6g + 11 = 5$

29. $32 = 5 - 3t$

30. $2d + \frac{1}{5} = \frac{3}{5}$

31. $1 = 2x + \frac{1}{2}$

32. $\frac{z}{2} + 1 = \frac{3}{2}$

33. $\frac{2}{3} = \frac{4j}{6}$

34. $\frac{3}{4} = \frac{3}{8}x - \frac{3}{2}$

35. $\frac{1}{5} - \frac{x}{5} = -\frac{2}{5}$

36. $6 = -2(7 - c)$

37. $5(h - 4) = 8$

38. $-3x - 8 + 4x = 17$

39. $4x + 6x = 30$

40. $2(x + 3) = 10$

41. $17 = 3(p - 5) + 8$

42. **Consumer Economics** Jennifer is saving money to buy a bike. The bike costs \$245. She has \$125 saved, and each week she adds \$15 to her savings. How long will it take her to save enough money to buy the bike?

43. If $2x + 13 = 17$, find the value of $3x + 1$.

44. If $-(x - 1) = 5$, find the value of $-4x$.

45. If $5(y + 10) = 40$, find the value of $\frac{1}{4}y$.

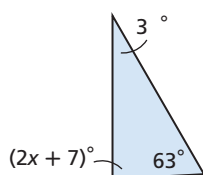
46. If $9 - 6x = 45$, find the value of $x - 4$.



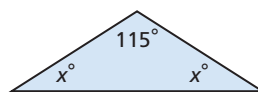
Geometry Write and solve an equation to find the value of x for each triangle.

(Hint: The sum of the angle measures in any triangle is 180° .)

47.



48.



49.

