EXAMPLE 4 on p. 20 for Exs. 33–40

THE DISTRIBUTIVE PROPERTY **Solve the equation. Check your solution.**

33. $2(b + 3) = 4b - 2$

34. $5d + 17 = 4(d + 3)$

35. $3(m - 5) = 6(m + 1)$

36. $-4(n + 2) = 3(n - 4)$

37. $12(r + 3) = 2(r + 5) - 3r$

38. $7(t - 3) = 2(t - 9) + 2t$

39. $10(w - 4) = 4(w + 4) + 4w$

40. $3(2x - 5) - x = -7(x + 3)$

ERROR ANALYSIS ***Describe*** **and correct the error in solving the equation.**

41.

$\frac{3}{7}x + 2 = 17$

$\frac{3}{7}x = 15$

$x = 15 - \frac{3}{7}$

$x = 14\frac{4}{7}$

42.

$\frac{1}{5}x + \frac{1}{2} = 1$

$10\left(\frac{1}{5}x + \frac{1}{2}\right) = 1$

$2x + 5 = 1$

$x = -2$

EXAMPLE 5 on p. 20 for Exs. 43–50

EQUATIONS WITH FRACTIONS **Solve the equation. Check your solution.**

43. $\frac{1}{2}t + \frac{1}{3}t = 10$

44. $\frac{1}{5}d + \frac{1}{8}d = 2$

45. $\frac{2}{3}m - \frac{3}{5}m = 4$

46. $\frac{4}{7}z + \frac{2}{3}z = 13$

47. $\frac{3}{7}w - \frac{2}{9} = \frac{4}{9}w + \frac{1}{7}$

48. $\frac{1}{2}x + 4 = -\frac{2}{3}x + \frac{1}{2}$

49. $\frac{2}{5}k + \frac{1}{6} = \frac{3}{10}k + \frac{1}{3}$

50. $\frac{2}{3}q - \frac{1}{12} = q + \frac{1}{8}$

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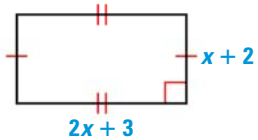
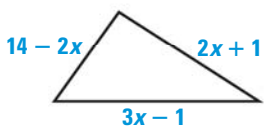
GEOMETRY **Solve for x. Then find the length of each side of the figure.**

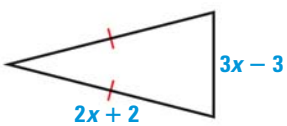
51. Perimeter = 46



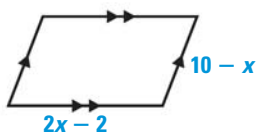
52. Perimeter = 26



53. Perimeter = 15



54. Perimeter = 26



EQUATIONS WITH DECIMALS **Solve the equation. Check your solution.**

55. $0.6g + 0.5 = 2.9$

56. $1.1h + 1.3 = 6.8$

57. $0.4k - 0.6 = 1.3k + 1.2$

58. $6.5m + 1.5 = 4.3m - 0.7$

59. $3.8w + 3.2 = 2.3(w + 4)$

60. $1.7(x + 5) = 2.1x + 9.7$

61. $2.25b + 3.81 = 1.75b + 5.26$

62. $18.13 - 5.18c = 6.32c - 8.32$

= WORKED-OUT SOLUTIONS on p. WS1

= TAKS PRACTICE AND REASONING