ANSWERS FOR 1.1

For use with pages 7–10

1.1 Guided Practice

2. *Sample answer:* $0, -2, \frac{5}{4}, \sqrt{7}$

4. 4 **6.** 6

8. commutative property of addition

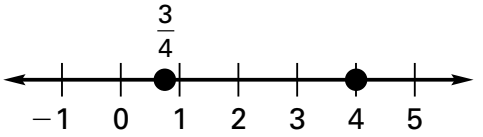
10. identity property of multiplication

12. identity property of addition

14. 132 feet per sec; canceling like units from numerators and denominators leaves feet in the numerator and seconds in the denominator.

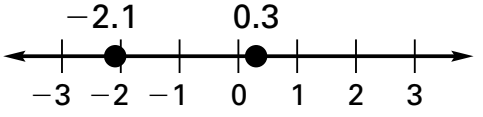
1.1 Practice and Applications

16.



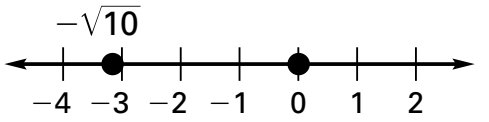
$4 > \frac{3}{4}$

18.



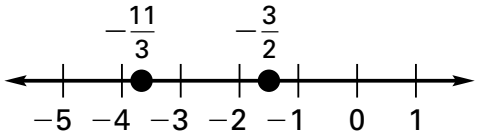
$0.3 > -2.1$

20.



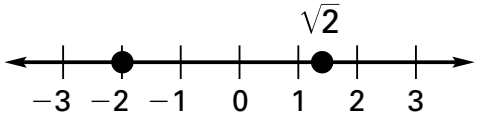
$0 > -\sqrt{10}$

22.



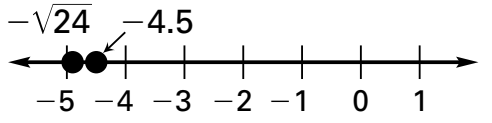
$-\frac{3}{2} > -\frac{11}{3}$

24.



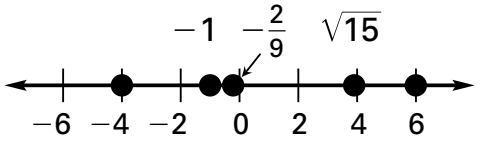
$-2 < \sqrt{2}$

26.



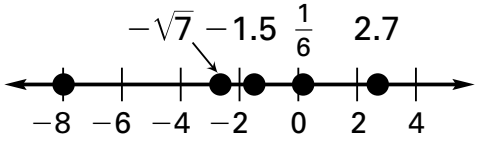
$-4.5 > -\sqrt{24}$

28.



$-4, -1, -\frac{2}{9}, \sqrt{15}, 6$

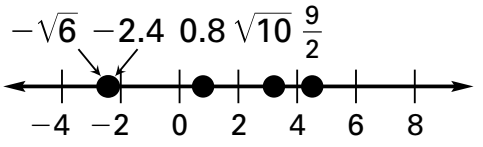
30.



$-8, -\sqrt{7}, -1.5, \frac{1}{6}, 2.7$

ANSWERS FOR 1.1 (CONT.)

For use with pages 7–10

32. 

$-\sqrt{6}, -2.4, 0.8, \sqrt{10}, \frac{9}{2}$

34. associative property of multiplication

36. associative property of addition

38. distributive property

40. No; *Sample answer:* $(3 - 4) - 5 = -1 - 5 = -6$ but $3 - (4 - 5) = 3 - (-1) = 4$

42. No; *Sample answer:* $(18 \div 6) \div 3 = 3 \div 3 = 1$, but $18 \div (6 \div 3) = 18 \div 2 = 9$

44. $-9 + (-6) = -15$

46. $-1 - (-10) = 9$

48. $-7 \times (-3) = 21$

50. $-14 \div \frac{7}{4} = -8$

52. $8\frac{7}{8}$ L

54. 34.09 mi/h or $34\frac{1}{11}$ mi/h

56. Mark O'Meara; Jim Furyk; Paul Azinger; Tiger Woods; Jay Haas; Jeff Maggert; Lee Janzen; Jumbo Ozaki; Corey Pavin; Vijay Singh

58. No; the result of performing the given operations is 4, which is not equal to the check digit 3.

60. 4.5 mi/hr

62. 900 francs

64. 75°F

66. **a.** ≈ 1750 km; Lethbridge

b. ≈ $42.29; 2

c. ≈ 19.9 h or 19 h 53 min

1.1 Mixed Review

68. -8

70. -4

72. -5

74. -8

76. $x + 7$

78. $6x$

80. 12 in.^{2}

82. 35 in.^{2}