

1.6**Practice B**

For use with pages 34–38

Find the difference.

- | | | |
|-----------------|-----------------|-----------------|
| 1. $7 - 11$ | 2. $15 - 26$ | 3. $4 - (-20)$ |
| 4. $13 - (-8)$ | 5. $-12 - 9$ | 6. $-19 - 28$ |
| 7. $-2 - (-24)$ | 8. $-18 - (-5)$ | 9. $-21 - (-6)$ |

Evaluate the expression when $x = -14$ and $y = -3$.

- | | | |
|-----------------|------------------|-------------------|
| 10. $x - y$ | 11. $29 - x$ | 12. $x - (-17)$ |
| 13. $-27 - y$ | 14. $y - 18$ | 15. $x - (-23)$ |
| 16. $x - 4 - 9$ | 17. $15 - y - 7$ | 18. $31 - 35 - y$ |

Find the change in temperature or elevation.

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|--|---|
| 19. From -16°C to 23°C | 20. From -47°C to -38°C |
| 21. From 9°F to -12°F | 22. From -16°F to -27°F |
| 23. From -64 meters to -40 meters | 24. From -20 meters to 50 meters |
| 25. From 120 yards to -45 yards | 26. From -16 feet to -32 feet |
27. Find the value of the expression $-9 - (-4) - 6$.
28. Find the value of the expression $102 - (-7) - 270$.
29. A group of hikers on a mountain began at an elevation of 3040 feet above sea level and stopped at an elevation of 2319 feet above sea level. What was their change in elevation between these points? How can you tell from the change in elevation whether the hikers were going up or down the mountain?
30. The temperature at 6 A.M. was 63°F . At 3 P.M., the temperature was 41°F . What was the change in temperature?

Lesson 1.6 *continued***Practice B**

1. -4 2. -11 3. 24 4. 21 5. -21
 6. -47 7. 22 8. -13 9. -15 10. -11
 11. 43 12. 3 13. -24 14. -21 15. 9
 16. -27 17. 11 18. -1 19. 39°C
 20. 9°C 21. -21°F 22. -11°F 23. 24 m
 24. 70 m 25. -165 yd 26. -16 ft 27. -11
 28. -161 29. -721 ft; A negative value means
 the hikers are going down. A positive value means
 the hikers are going up. 30. -22°F

Practice C

1. 5 2. -14 3. 78 4. 63 5. -62
 6. -115 7. -37 8. 25 9. -19 10. -44
 11. 29 12. 62 13. 18 14. -64 15. 24
 16. -51°C 17. -68°F 18. -16 m
 19. -125 ft 20. -43 21. -421 22. -62
 23. 270 24. 25 25. 9 26. -4 27. -10
 28. \$101,200 29. a. \$58,000 b. \$214,000
 c. \$46,000 d. \$318,000 e. \$208,000

Review for Mastery

1. -9 2. -13 3. 20 4. 8 5. 23 6. -15
 7. -11 8. 25 9. 39°C 10. -12°F
 11. 83 ft 12. -104 m

Challenge Practice

1. -5 2. -35 3. 4 4. -33 5. negative
 6. positive 7. could be either
 8. could be either
 9. $76,112 - 227 - 34 - 1373 - 5 + 325$
 $= 74,798$; The new account balance is about
 \$74,798.

Focus On Data 1.6**Practice**

1. 59.4 min; 60.5 min; 63 min; 10 min 2. \$68;
 \$68; no mode; \$120 3. 5.43°F; 7°F; 11°F; 20°F
 4. 18; 18; no mode; 39 5. 12.9; 13.5; 16; 17
 6. 14.9; 15; 15; 2 7. -1.14°C; -2°C; -2°C;
 8°C 8. 83.7; 83.5; no mode; 25 9. 21.88; 22.5;
 no mode; 12 10. \$757.86; \$790; no mode; \$440

11. The mean is decreased to 81.55, the median is
 decreased to 82, there is still no mode, and the
 range is increased to 35.

12. The mean, median, and range are all doubled.
 There is still no mode.

13. The mean is decreased to \$743.57, the median
 is unchanged, the mode is now \$890, and the
 range is decreased to \$340.

14. The restaurant owner would use the mean
 because it is lower than the median or mode.

Review for Mastery

1. 10.08°F 2. 8.71 mi 3. 15°F; no mode
 4. 6 mi; 3 mi and 6 mi 5. 60°F 6. 25 mi

Lesson 1.7**Practice A**

1. negative 2. positive 3. negative
 4. negative 5. positive 6. negative 7. 104
 8. -170 9. 0 10. -90 11. -60 12. 126
 13. -25 14. 0 15. -3 16. 14 17. -4
 18. -5 19. 396 20. -288 21. 1960
 22. 6 23. 3 24. -10 25. -9 26. 60
 27. -18 28. 40°F 29. \$35

Practice B

1. negative 2. negative 3. positive
 4. -125 5. 116 6. -4 7. -7 8. 6
 9. -288 10. 252 11. -3 12. 34
 13. -63 14. -133 15. 231 16. -960
 17. 8320 18. 5 19. 4 20. 32 21. -81
 22. < 23. > 24. 15 25. -6 26. -5°C

Practice C

1. -8 2. 3 3. 175 4. -396 5. -1456
 6. 528 7. -7 8. -75 9. -53 10. -26
 11. -4402 12. -1239 13. 2255
 14. -4320 15. 2 16. -8 17. -30 18. 5
 19. 672 20. -1296 21. -4320 22. -9
 23. -36 24. -4 25. 6 26. 19 27. 498 ft
 28. 2; 3.5; the mean represents a lower number of
 yards gained.