Chapter 3 Support File Answers

Practice 3-1

Practice 3-2
1. no; 1800  2. no; 5  3. yes  4. yes  5. no; -2.4  6. no; 80  7. yes  8. no; 20  9. no; 12  10. yes  11. 54  12. 55  13. 600  14. 35  15. 1500  16. 280  17. 4  18. 5  19. 6  20. 6  21. 15  22. 3  23. $15  24. No. 6.85 \approx 7; the total should be less than 3 \times 7 = $21.  25. $5

Practice 3-3
1.a. 8.8, 8.85, 8.9  b. Answers may vary. Sample: The median; the mean is affected by the outlier, and the mode is next to the highest score. c. This eliminates scores that are not representative of the majority.  2. 8.5, 8.5, 9, 15  3. 51.4, 60.5, none, none  4. 5.2, 5.1, 4.9, none  5. 232.4, 234, 234 and 271, 155  6. 3, 3, 3, none  7. 15,103.4 ft  8. 14,911 ft  9. Mont Blanc is over 500 ft higher than Monte Rosa.

Practice 3-4
1. 27 m  2. 13 ft  3. 35.2 cm  4. 40.5 sq m  5. 6.76 sq ft  6. 60.63 sq cm  7. 447.5, 366.5, 308, 220, 110, 66  8. 66.2, 71.6, 86, 82.4, 75.2, 68

Practice 3-5
1. $n = 7.42  2. x = 2.22  3. t = 16.05  4. k = -117.61  5. k = 5.44  6. p = -35.7  7. y = -1.39  8. h = -29.403  9. y = 48.763  10. e = 9.69  11. x = 0.0049  12. v = -10.373  13. x = -19.2  14. f = -0.15  15. a = -27.98  16. m = 82.655  17. z = 0  18. t = 11.5  19. b = 22.76  20. n = 4  21. k = 0  22. n = 4  23. x = 7.3  24. p = 10  25. c = 6.2  26. j = 3.9

Practice 3-6
1. $h = 6  2. x = -7.5  3. k = -0.387  4. e = 0.1  5. p = 1.595  6. x = -6.37
7. $y = -54.4  8. k = 0.084  9. n = 970.9  10. e = -2134.84  11. a = -872.1  12. p = 5.472  13. k = -0.26  14. p = -414  15. $y = -8.5  16. n = -0.45  17. m = 2.02  18. $h = -28.6  19. t = -12.4  20. y = 1.3  21. $\frac{n}{7} = 0.024; n = -0.032  22. $n \frac{388}{7} = -2000; n = 7760  23. $0.04n = 33.4; n = 835  24. $-0.26n = 169.39; n = -651.5

Practice 3-7
1. mm  2. km  3. cm  4. cm  5. 34  6. 1.975  7. 7000  8. 5.247  9. 0.087  10. 9.246  11. 250 mL; A cup would hold less than a quart.  12. 2 kg; A bag of apples weighs more than this math book.  13. 68 cm; The height is less than a yard.  14. Kilometer; cities are usually miles apart.  15. Gram; a pencil weighs a little more than a paper clip.  16. Liter; a tank usually holds between 10 and 20 gallons.  17. 1.5  18. 2.5

Practice 3-8
1.a. 18  b. 360  c. 5,400  d. $520.02  2.a. 4  2.b. 6  2.c. 16  2.d. 30  2.e. 540  2.f. 4 cm  2.g. 5 cm  2.h. 6 cm  2.i. 52 cm  2.j. 101 s  2.k. 59 days

Reteaching 3-1
1. $6 + 8 = 14  2. 70 - 30 = 40  3. 0.5 + 0.9 = 1.4; 11 + 1.4 = 12.4  4. $7 + 8 = 15.50 + 15 = 65  5. 1 + 7 = 8; 20 + 8 = 28  6. 0.05 + 0.08 = 0.13; 0.5 + 0.13 = 0.63  7. 4 \times 10 = $40  8. 3 \times 50 = $150  9. 3 \times 120 = 360  10. 5 \times 7 = 35

Reteaching 3-2
Answers may vary. Samples are given.  1. 16 ÷ 8 = 2  2. 150 ÷ 0.5 = 300  3. -80 ÷ 80 = -6  4. 12 ÷ 3 = 4  5. 550 ÷ 50 = 11  6. -10 ÷ (-2) = 5  7. 6.4 ÷ (0.8) = -8  8. -30 ÷ 0.6 = -50  9. 320 ÷ (-4) = -80  10. 81 ÷ 9 = 9  11. -60 ÷ 15 = -4  12. 24 ÷ 6 = 4  13. 120 ÷ 40 = 3  14. 1.5 ÷ 0.3 = 5  15. 6,300 ÷ (-70) = -90

Reteaching 3-3
1. 14.5, 14.45, none  2. 5.6, 6, 7  3. 38.8, 37, none  4. 2.0, 1.85, 1.8 and 2.6  5. 803.6 ft  6. 802 ft  7. None
Chapter 3 Support File Answers (continued)

Reteaching 3-4
1. 4, 7.2, 39.2°F  2. 40, 72, 104°F  3. 22, 39.6, 71.6°F  4. 35, 63, 95°F  5. −6, −10.8, 21.2°F  6. −24, −43.2, −11.2°F  7. 68, 36, 20°C  8. 17.6, −14.4, −8°C  9. 5, −27, −15°C  10. 57.2, 25.2, 14°C  11. 32, 0, 0°C  12. 212, 180, 100°C

Reteaching 3-5
1. −13.15  2. 7.9  3. 115.3  4. −59.5  5. −36.1  6. 5.5  7. −44.4  8. 274.3

Reteaching 3-6
1. −0.61  2. 3.2  3. 0.378  4. −0.118  5. 0.2  6. −46.74  7. 12.462  8. −3.5

Reteaching 3-7
1. 6,900  2. 56,2  3. 5,346  4. 0.246  5. 8.9  6. 4,730  7. 9,400  8. 0.29  9. 2,100  10. 165  11. 37,000  12. 0.0875  13. 0.797  14. 175,000  15. 3.926  16. 710  17. 0.09836  18. 17,900

Reteaching 3-8
1. 3, 4, 14; $350  2. 9, 9; 90,180; 326, 978; 1,167 digits  3. 12

Enrichment 3-1

Enrichment 3-2
1. 371 + 258 = 629  2. 5678 − 3294 = 2384  3. 3722 + 5683 = 9405  4. 19.4 × 38.6 = 748.84  5. 5.12 × 6.93 = 35.4816  6. 20.677 + 7.13 = 2.9

Enrichment 3-3
1. 95  2. 6  3. 82.7  4. 17.4  5. 35  6. 27  7. 32,37  8. 1,1,4,4,5

Enrichment 3-4
1. 9:06 A.M.  2. 16 mi; 9:26 A.M.  3. 42 mi/h; 9:51 A.M.  4. 36 mi; 10:31 A.M.  5. 34.5 mi  6. 128 mi; 2.77 h; 46.21 mi/h

Enrichment 3-5

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Enrichment 3-6
1.a. 5 and 8  2. 74.1  3. 45.9  4. 140  5. Back 1$\frac{1}{2}$ somersault 2$\frac{1}{2}$ twist  6. 2.5 or greater

Enrichment 3-7
1. 100  2. 100; 1,000,000; 1,000,000,000,000  3. 1; 10,000; 10,000,000,000  4. 0.0001; 1; 1,000,000  5. 200  6. 340  7. 5,000,000  8. 7,450,000  9. 68,400,000  10. 476,900,000,000,000  11. 84,000  12. 500,000  13. 0.0009  14. 61,000,000,000

Enrichment 3-8
1. Each distance is twice the previous distance.  2. 0.2 mi, 0.4 mi, 0.8 mi, 1.6 mi, 3.2 mi, 6.4 mi  3. 1 h, 2 h, 4 h, 8 h, 16 h, 32 h  4. 1 h, 3 h, 7 h, 15 h, 31 h, 63 h  5. 1, 3, 7, 15  6. 1,023 h

Checkpoint 1
1. 17.93  2. 0.5  3. 6,329  4. 27  5. −1  6. 6  7. $4.06, 3.01, none  8. C

Checkpoint 2
1. $n = 2.6$  2. $y = 320$  3. $h = 304.8$  4. $d = 15.12$  5. 340 g; A stapler weighs less than a math book.  6. 0.084  7. 0.574  8. 4,600  9. 10.924 km

Chapter 3 Test Form A

Pre-Algebra Chapter 3  38