Chapter 6

Standardized Test

1. D **2.** B **3.** A **4.** C **5.** A **6.** D **7.** D

8. B **9.** C **10.** C **11.** B **12.** B **13.** D

14. A **15.** C **16.** 195

17. length is 1 : 1, width is 1 : 16, area is 1 : 16; After 5 folds: length is 1 : 1, width is 1 : 32, area is 1 : 32; After 6 folds; length is 1 : 1, width is 1 : 64, area is 1 : 64

18. a. A, B, C, E

b. The 16 × 20 is an enlargement dilation of the 8 × 10 by a scale factor of 2 : 1. The 10 × 14 is an enlargement dilation of the 5 × 7 by a scale factor of 2 : 1. The 4 × 6 is an enlargement dilation of the 2 × 3 by a scale factor of 2 : 1. The 12 × 16 is an enlargement dilation of the 1.5 × 2 by a scale factor of 8 : 1 **c.** C and E could print on a 10 × 14. G, I, and J could print on an 8 × 12.

Chapter 6

SAT/ACT Chapter Test

1. B **2.** C **3.** D **4.** A **5.** E **6.** D **7.** D **8.** C

9. B **10.** B **11.** A **12.** 40 **13.** 5 ft

Chapter 7

Standardized Test

1. B **2.** A **3.** D **4.** D **5.** C **6.** A **7.** C

8. B **9.** D **10.** B **11.** A **12.** D **13.** A

14. B **15.** B **16.** 43.5 **17.** 25 ft; 28.69°

18. a. 11,250 ft² **b.** 13,500 ft² **c.** 15,668 ft² **d.** 7548.86 ft²

Chapter 7

SAT/ACT Chapter Test

1. C **2.** B **3.** E **4.** A **5.** A **6.** A **7.** B **8.** D

9. C **10.** E **11.** A **12.** C **13.** D **14.** B

15. 75.3 **16.** 23.6 **17.** 2400

Chapter 8

Standardized Test

1. B **2.** A **3.** D **4.** B **5.** C **6.** C **7.** A

8. D **9.** B **10.** C **11.** A **12.** B **13.** A

14. D **15.** D **16.** 23.5

17. a. $FM = 70$ ft, $IJ = 10$ ft **b.** 732.8 ft

18. a. 184 ft² **b.** 240 ft³ **c.** 84 ft³

Chapter 8

SAT/ACT Chapter Test

1. B **2.** D **3.** E **4.** A **5.** A **6.** C **7.** B **8.** C

9. D **10.** D **11.** B **12.** C **13.** A **14.** 18

15. 24 **16.** 16