# Chapter 7 Answers

#### Practice 7-1

1. 8 2. 8 3. 60 4. 240 5. 2.635 6. 1.92 7. 0.8125 8. 9 9. 1500 10. 8.75 11. 3.44 12. 7 13. 110 14. 30 15. 16 16. 119 17. 12 18. 48 19. 40 20. 56

#### Practice 7-2

1.  $\sqrt{51}$  2.  $4\sqrt{7}$  3.  $2\sqrt{65}$  4.  $\sqrt{7}$ 5.  $2\sqrt{21}$  6.  $18\sqrt{2}$  7.  $210 \text{ in}^2$  8.  $24\sqrt{10} \text{ cm}^2$ 9.  $35\sqrt{114} \text{ ft}^2$  10. 46 in 11. 78 ft 12. 279 cm13. 19 m 14. acute 15. right 16. obtuse
17. right 18. obtuse 19. acute

#### Practice 7-3

1.  $x = 2; y = \sqrt{3}$  2.  $a = 45; b = 45\sqrt{3}$ 3.  $c = \frac{50\sqrt{3}}{3}; d = \frac{25\sqrt{3}}{3}$  4.  $8\sqrt{2}$  5.  $14\sqrt{2}$ 6.  $\frac{25\sqrt{3}}{3}$  7. 2 8.  $x = 15; y = 15\sqrt{3}$  9.  $3\sqrt{2}$ 10. 42 cm 11. 5.9 in 12. 10.4 ft, 12 ft 13.  $170 \text{ in}^2$ 14.  $w = \frac{16\sqrt{3}}{3}; x = 5; y = 5\sqrt{2}; z = \frac{5\sqrt{3}}{3}$  15. a = 4; b = 3 16.  $p = 4\sqrt{3}; q = 4\sqrt{3}; r = 8; s = 4\sqrt{6}$ 

#### Practice 7-4

1.  $48 \text{ cm}^2$  2.  $784 \text{ in.}^2$  3.  $11.4 \text{ ft}^2$  4.  $90 \text{ m}^2$ 5.  $2400 \text{ in.}^2$  6.  $374 \text{ ft}^2$  7.  $160 \text{ cm}^2$  8.  $176.25 \text{ in.}^2$ 9.  $54 \text{ ft}^2$  10. 42.5 square units 11.  $96\sqrt{3} \text{ square units}$ 12.  $36\sqrt{3} \text{ square units}$  13.  $45 \text{ cm}^2$  14.  $226.2 \text{ in.}^2$ 15.  $49.500 \text{ m}^2$ 

#### Practice 7-5

1.  $x = 7; y = 3.5\sqrt{3}$  2.  $a = 60; c = \frac{8\sqrt{3}}{3}; d = \frac{8\sqrt{3}}{3}$ 3.  $p = 4\sqrt{3}; q = 8; x = 30$  4.  $m \angle 1 = 45; m \angle 2 = 45;$   $m \angle 3 = 90; m \angle 4 = 90$  5.  $m \angle 5 = 60; m \angle 6 = 30;$   $m \angle 7 = 120$  6.  $m \angle 8 = 60; m \angle 9 = 30; m \angle 10 = 60$ 7.  $12\sqrt{3}$  8.  $36.75\sqrt{3}$  9.  $75\sqrt{3}$  10.  $120 \text{ in.}^2$ 11.  $137 \text{ in.}^2$  12.  $97 \text{ in.}^2$ 

#### Practice 7-6

1.  $32\pi$  2.  $16\pi$  3.  $7.8\pi$  4. Samples:  $\overline{DFA}$ ,  $\overline{ABF}$  5. Samples:  $\overline{FE}$ ,  $\overline{FD}$  6. Samples:  $\overline{FEB}$ ,  $\overline{EDA}$  7. Samples:  $\overline{FE}$ ,  $\overline{ED}$  8.  $\angle ACB$  9.  $\angle FCD$  10. 32 11. 43 12. 54 13. 39 14. 71 15. 90 16. 50 17. 220 18. 140 19. 220 20. 130 21.  $6\pi$  in. 22.  $16\pi$  cm 23.  $\frac{3}{2}\pi$  m

#### Practice 7-7

1. 49年 2. 21.2 3. 翌年 4. 翌年 21.2 5. 皇年 6. 皇 7. 長年 6. 皇 7. 長年 6. 皇 9. 4年 10. 翌年 11. 皇年 12. 皇年 13. 吳年 14. 6年 15. 皇年 16. 翌年 17. 至 18. 3 19. 2 20. 10

#### Practice 7-8

1. 8.7% 2. 10.9% 3. 15.3% 4.  $\frac{1}{20}$  5.  $\frac{7}{10}$  6.  $\frac{3}{2}$  7.  $\frac{1}{10}$  8. 1 9.  $\frac{1}{2}$  10. 22.2% 11. 4.0% 12. 37.5% 13. 20% 14. 50% 15. 40% 16. 33 $\frac{1}{2}$ %

#### Reteaching 7-1

1. Samples:





2. Samples:



20 cm<sup>2</sup>
 55 in.<sup>2</sup>
 6m
 8 Samples:



9. 5 in. 10. 23 cm 11. 9 ft

#### Reteaching 7-2

1.-2. Sample:



3. Sample: 9, 16, and 25 4. They are equal. 5. The sum of the squares of the two legs equals the square of the hypotenuse. 6.  $4\sqrt{5}$  7.  $7\sqrt{2}$  8. 8 9. 6

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