

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 in.^2 8. $24\sqrt{10}\text{ cm}^2$
9. $35\sqrt{114}\text{ ft}^2$ 10. 46 in. 11. 78 ft 12. 279 cm
13. 19 m 14. acute 15. right 16. obtuse
17. right 18. obtuse 19. acute

Practice 7-3

1. $x = 2; y = \sqrt{3}$ 2. $a = 4.5; b = 4.5\sqrt{3}$
3. $c = \frac{80\sqrt{3}}{3}; d = \frac{20\sqrt{3}}{3}$ 4. $8\sqrt{2}$ 5. $14\sqrt{2}$
6. $\frac{28\sqrt{3}}{3}$ 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 in.^2
14. $w = \frac{80\sqrt{3}}{3}; x = 5; y = 5\sqrt{2}; z = \frac{2\sqrt{2}}{3}$ 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 cm^2 2. 784 in.^2 3. 11.4 ft^2 4. 90 m^2
5. 2400 in.^2 6. 374 ft^2 7. 160 cm^2 8. 176.25 in.^2
9. 54 ft^2 10. 42.5 square units 11. $96\sqrt{3}\text{ square units}$
12. $36\sqrt{3}\text{ square units}$ 13. 45 cm^2 14. 226.2 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. $p = 4\sqrt{3}; q = 8; s = 30$ 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 in.^2
11. 137 in.^2 12. 97 in.^2

Practice 7-6

1. 32π 2. 16π 3. 7.8π 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. $6\pi\text{ in.}$ 22. $16\pi\text{ cm}$ 23. $\frac{3}{4}\pi\text{ m}$

Practice 7-7

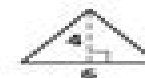
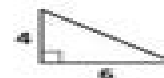
1. 49π 2. 21.2 3. $\frac{22}{3}\pi$ 4. $\frac{22}{3}\pi - 21.2$ 5. $\frac{1}{3}\pi$
or $\frac{\pi}{3}$ 6. $\frac{1}{3}$ 7. $\frac{1}{10}\pi$ or $\frac{\pi}{10}$ 8. $\frac{\pi}{10} - \frac{1}{3}$ 9. 4π
10. $\frac{13}{2}\pi$ 11. $\frac{2}{3}\pi$ 12. $\frac{3}{2}\pi$ 13. $\frac{13}{2}\pi$ 14. 6π
15. $\frac{6}{5}\pi$ 16. $\frac{13}{5}\pi$ 17. $\frac{\pi}{5}$ 18. 3 19. 2
20. 10

Practice 7-8

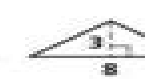
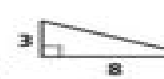
1. 8.7% 2. 10.9% 3. 15.3% 4. $\frac{3}{10}$ 5. $\frac{7}{10}$
6. $\frac{3}{5}$ 7. $\frac{1}{10}$ 8. 1 9. $\frac{1}{3}$ 10. 22.2% 11. 4.0%
12. 37.5% 13. 20% 14. 50% 15. 40%
16. $33\frac{1}{3}\%$

Reteaching 7-1

1. Samples:

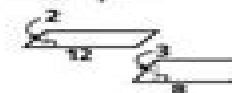


2. Samples:



3. 20 cm^2 4. 55 in.^2 5. 6 m 6. 8 ft 7. 4 in.

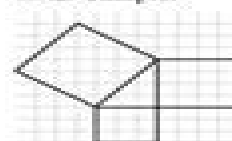
8. Samples:



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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1. Understanding the eBook Geometry Practice Workbooks Answers
 - The Rise of Digital Reading Geometry Practice Workbooks Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Practice Workbooks Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Practice Workbooks Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Practice Workbooks Answers
 - Personalized Recommendations
 - Geometry Practice Workbooks Answers User Reviews and Ratings
 - Geometry Practice Workbooks Answers and Bestseller Lists

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 - Highlighting and Note-Taking Geometry Practice Workbooks Answers
 - Interactive Elements Geometry Practice Workbooks Answers
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Practice Workbooks Answers
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Practice Workbooks Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometry Practice Workbooks Answers
 - Setting Reading Goals Geometry Practice Workbooks Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Practice Workbooks Answers
 - Fact-Checking eBook Content of Geometry Practice Workbooks Answers
 - Distinguishing Credible Sources
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- Exploring Educational eBooks

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