# Chapter 8 Answers

#### Practice 8-1

1. 1:278 2. 18 h by 10 h 3. 18 h by 14 h 4. 18 ft by 16 ft 5. 8 ft by 8 ft. 6. 3 th by 10 th 7. tirue 8. false 9. true 100. Trease 14. disher-12. true 13. true 16, 12 17. 12. 18, 23, 19, -21. 4 22. 6 23. 4 24. -4 20. ±8 26. 3:2 27. 12:7 28. 7 25. 14:5

#### Practice 8-2

ΔABC — ΔXYZ, with similarity ratio 2: 1
 ΔQMN — ΔRST, with similarity ratio 5: 3
 Not similar, corresponding sides are not proportional.
 Not similar corresponding angles are not congruent.
 ΔABC — ΔKMN, with similarity ratio 4: 7
 Not similar, corresponding sides are not proportional.
 ∠I 8. ∠O 9. ∠I 10. NO 11. LO
 ∠LO 13. 396 ft 14. 4.8 in. 15. 3.75 cm
 16. 10 m 17. ½ 18. 53 19. 7½ 20. 4½
 21. 53 22. 37 23. 5

#### Practice 8-3

1.  $\angle AXB = \angle RXQ$  because vertical angles are =.  $\angle A = \angle R$  (Given). Therefore  $\triangle AXB - \triangle RXQ$  by the AA - Postulate.

2. Because  $\frac{MP}{MP} = \frac{PX}{MA} = \frac{NM}{AL} = \frac{1}{2}$ .  $\triangle MPX - \triangle LWA$  by the SSS  $\sim$  Theorem.

3.  $\angle QMP = \triangle AMB$  because vertical  $\angle S$  are  $\cong$ . Then, because  $\frac{PM}{AM} = \frac{PM}{BM} = \frac{1}{2}$ .  $\triangle QMP - \triangle AMB$  by the SAS  $\sim$  Theorem.

4.  $\angle M = \angle A$  (Given). Because there are 189° in a triangle,  $m\angle J = 130$ , and  $\angle J = \angle C$ . So  $\triangle MIN - \triangle ACB$  by the AA - Postulate.

5. Because AX - BX and CX - RX,  $\frac{AX}{CX} = \frac{PX}{R}$ ,  $\angle AXB = \angle CXR$  because vertical angles are  $\cong$ . Therefore  $\triangle AXB - \triangle CXR$  by the SAS  $\sim$  Theorem.

6. Because AB - BC - CA and XY - YZ = ZX,  $\frac{AB}{AP} - \frac{PC}{PZ} - \frac{CA}{CA}$ . Then  $\triangle ABC - \triangle XYZ$  by the SSS  $\sim$  Theorem.

7.  $\frac{12}{N}$  8.  $\frac{52}{N}$  9.  $\frac{45}{N}$  10.  $\frac{32}{N}$  11.  $\frac{20}{N}$  12, 36 13, 33 it

## Practice 8-4

1. 16 2. 8 3.  $\sqrt{77}$  4.  $2\sqrt{11}$  5.  $16\sqrt{2}$ 6.  $6\sqrt{5}$  7. h 8. y 9. x 10. a 11. b
12. c 13. x = 6:  $y = 6\sqrt{3}$  14.  $x = 8\sqrt{3}$ :  $y = 4\sqrt{3}$ 15.  $\frac{60\sqrt{10}}{32}$  16.  $\frac{7}{2}$  17.  $x = 4\sqrt{5}$ :  $y = \sqrt{55}$ 18.  $x = \frac{45}{3}$ :  $y = \frac{72}{3}$  19.  $x = \sqrt{3}$ :  $y = \sqrt{6}$ :  $z = \sqrt{2}$ 20.  $x = \frac{2}{5}$ :  $y = \frac{12}{5}$ :  $z = \frac{16}{5}$  21. x = 8:  $y = 2\sqrt{2}$ :  $z = 6\sqrt{2}$  22.  $z\sqrt{15}$  in.

#### Practice 8-5

1. BE 2. EH 3. BC 4. ID 5. 升 6. BE 7. 午 8. 4 9. 4 10. 子 11. x = 子: y = 4 12. 午 13. x = 丹: y = 丹 14. x = 6; y = 6 15. x = 平: y = 平 16. 2 17. 4 18. 10

#### Practice 8-6

**1.** 4:5:16:25 **2.** 5:3:25:9 **3.** 3:4:9:16 **4.** 1:2 **5.** 9:5 **6.** 1:6 **7.** 8:3 **8.**  $\frac{526}{3} \ln^2$  **9.**  $\frac{2100}{10} \text{ cm}^2$  **10.**  $\frac{1152}{10} \ln^2$  **11.** 2:3 **12.** 1:2 **13.** 2:5 **14.**  $108 \ln^2$ 

#### Reteaching 8-1

1. 534 apples 2. 768 gallons 3. 4627 employees 4. about 4800 picture frames 5. 90 6. 2450 7. 85 8. 560 9. 58 10. 7308 11. 12 12. 20,250 13. 2500

#### Reteaching 8-2

△KLM − △QRS: 5:3
 △ABC − △XYZ: 10:7
 not similar
 not similar
 similar
 similar with ratio 10:11
 not

## Reteaching 8-3

△ABC ~ △ZYX by AA ~
 △QEU ~ △SIO by SSS ~
 △ABC ~ △RST by AA ~
 △ABC ~ △RST by AA ~
 △ABC ~ △XQR by SAS ~
 7. yes; by SSS ~ or by AA ~
 No: the vertex angles may differ in measure.
 All congruent triangles are similar with ratio I: 1. Similar triangles are not necessarily congruent.

## Reteaching 8-4

1.  $x = \frac{74}{15}, y = \frac{144}{15}; z = \frac{144}$ 

## Reteaching 8-5

1. x = 45 2.  $x = \frac{9}{4}$  3. x = 7.2; y = 484.  $x = \frac{19}{2}; y = \frac{19}{2}$  5. x = 9 6.  $x = \frac{3}{2}; y = \frac{3}{2}$ 7.  $BN = \frac{19}{2}; CN = \frac{24}{2}$  8.  $BY = \frac{3}{2}$ 

## Reteaching 8-6

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# **Table of Contents Mathematics Chapter 8 Test Answers Pearson Education**

- 1. Understanding the eBook Mathematics Chapter 8 Test Answers Pearson Education
  - The Rise of Digital Reading Mathematics Chapter 8 Test Answers Pearson Education
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics Chapter 8 Test Answers Pearson Education
  - 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 Mathematics Chapter 8 Test Answers Pearson Education
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics Chapter 8 Test Answers Pearson Education
  - Personalized Recommendations
  - Mathematics Chapter 8 Test Answers Pearson Education User Reviews and Ratings
  - Mathematics Chapter 8 Test Answers Pearson Education and Bestseller Lists
- 5. Accessing Mathematics Chapter 8 Test Answers Pearson Education Free and Paid eBooks
  - Mathematics Chapter 8 Test Answers Pearson Education Public Domain eBooks
  - Mathematics Chapter 8 Test Answers Pearson Education eBook Subscription Services
  - Mathematics Chapter 8 Test Answers Pearson Education Budget-Friendly Options

- 6. Navigating Mathematics Chapter 8 Test Answers Pearson Education eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mathematics Chapter 8 Test Answers Pearson Education Compatibility with Devices
  - Mathematics Chapter 8 Test Answers Pearson Education Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Mathematics Chapter 8 Test Answers Pearson Education
  - Highlighting and Note-Taking Mathematics Chapter 8 Test Answers Pearson Education
  - Interactive Elements Mathematics Chapter 8 Test Answers Pearson Education
- 8. Staying Engaged with Mathematics Chapter 8 Test Answers Pearson Education
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Chapter 8 Test Answers Pearson Education
- 9. Balancing eBooks and Physical Books Mathematics Chapter 8 Test Answers Pearson Education
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Chapter 8 Test Answers Pearson Education
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Chapter 8 Test Answers Pearson Education
  - Setting Reading Goals Mathematics Chapter 8 Test Answers Pearson Education
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Chapter 8 Test Answers Pearson Education
  - Fact-Checking eBook Content of Mathematics Chapter 8 Test Answers Pearson Education
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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