# 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. ½
 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 1:1. 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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Ying Liu

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