Chapter 8 Answers

Practice 8-1

1. $1:278$ **2.** 18 ft by 10 ft   **3.** 18 ft by 14 ft
4. 18 ft by 36 ft   **5.** 8 ft by 8 ft   **6.** 3 ft by 10 ft
7. true   **8.** false   **9.** true   **10.** true
11. false   **12.** true   **13.** true   **14.** false
15. false   **16.** 12   **17.** 12   **18.** 33   **19.** $\frac{21}{4}$
20. ± 8 **21.** $\frac{60}{7}$ **22.** 6   **23.** $\frac{3}{4}$ **24.** $-\frac{9}{8}$
25. $14:5$ **26.** $3:2$ **27.** $12:7$ **28.** $\frac{4}{3}$ **29.** $\frac{7}{13}$

Practice 8-2

1. $\triangle ABC \sim \triangle XYZ$, with similarity ratio $2:1$
2. $\triangle QMN \sim \triangle RST$, with similarity ratio $5:3$
3. Not similar; corresponding sides are not proportional.
4. Not similar; corresponding angles are not congruent.
5. $\triangle ABC \sim \triangle KMN$, with similarity ratio $4:7$
6. Not similar; corresponding sides are not proportional.
7. $\angle I$ **8.** $\angle O$ **9.** $\angle J$ **10.** NO **11.** LO
12. LO **13.** 3.96 ft   **14.** 4.8 in.   **15.** 3.75 cm
16. 10 m   **17.** $\frac{7}{2}$ **18.** 53   **19.** $7\frac{1}{2}$ **20.** $4\frac{1}{2}$
21. 53   **22.** 37   **23.** 5

Practice 8-3

1. $\angle AXB \cong \angle RXQ$ because vertical angles are $\cong$. $\angle A \cong \angle R$ (Given). Therefore $\triangle AXB \sim \triangle RXQ$ by the AA $\sim$ Postulate.   **2.** Because $\frac{MP}{LW} = \frac{PX}{WA} = \frac{XM}{AL} = \frac{3}{2}$, $\triangle MPX \sim \triangle LWA$ by the SSS $\sim$ Theorem.   **3.** $\angle QMP \cong \angle AMB$ because vertical $\angle$s are $\cong$. Then, because $\frac{QM}{AM} = \frac{PM}{BM}$, $\triangle QMP \sim \triangle AMB$ by the SAS $\sim$ Theorem.   **4.** $\angle M \cong \angle A$ (Given). Because there are 180° in a triangle, $m\angle I = 130$, and $\angle J \cong \angle C$. So $\triangle MJN \sim \triangle ACB$ by the AA $\sim$ Postulate.   **5.** Because $AX = BX$ and $CN = RX$, $\frac{AX}{BX} = \frac{CX}{RX}$, $\angle AXB \cong \angle CXR$ because vertical angles are $\cong$. Therefore $\triangle AXB \sim \triangle CXR$ by the SAS $\sim$ Theorem.   **6.** Because $AB = BC = CA$ and $XY = YZ = ZX$, $\frac{AB}{XY} = \frac{BC}{YZ} = \frac{CA}{ZX}$. Then $\triangle ABC \sim \triangle XYZ$ by the SSS $\sim$ Theorem.   **7.** $\frac{C}{6}$ **8.** $\frac{32}{5}$ **9.** $\frac{40}{3}$
10. $\frac{55}{4}$ **11.** $\frac{20}{3}$ **12.** 36   **13.** 33 ft

Practice 8-4

1. 16   **2.** 8   **3.** $\sqrt{77}$ **4.** $2\sqrt{11}$ **5.** $18\sqrt{2}$
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. $\frac{40\sqrt{3}}{3}$ **16.** $\frac{9}{2}$ **17.** $x = 4\sqrt{5}; y = \sqrt{55}$
18. $x = \frac{65}{4}; y = \frac{25}{4}$ **19.** $x = \sqrt{3}; y = \sqrt{6}; z = \sqrt{2}$
20. $x = \frac{9}{2}; y = \frac{12}{2}; z = \frac{10}{2}$ **21.** $x = 8; y = 2\sqrt{2}$
$z = 6\sqrt{2}$ **22.** $2\sqrt{15}$ in.

Practice 8-5

1. BE **2.** EH **3.** BC **4.** ID **5.** $\frac{60}{37}$
6. BE **7.** $\frac{20}{3}$ **8.** 4   **9.** 4   **10.** $\frac{20}{7}$ **11.** $x = \frac{20}{3}$;
$y = 4$ **12.** $\frac{12}{5}$ **13.** $x = \frac{65}{4}; y = \frac{21}{4}$ **14.** $x = 6$;
$y = 6$ **15.** $x = \frac{120}{7}; y = \frac{130}{7}$ **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.** $\frac{528}{5}$ in.^{2} **9.** $\frac{2500}{9}$ cm^2
10. $\frac{1452}{5}$ in.^{2} **11.** $2:3$ **12.** $1:2$ **13.** $2:5$
14. 108 ft^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. 2800

Reteaching 8-2

1. $\triangle KLM \sim \triangle QRS; 5:3$ **2.** $\triangle ABC \sim \triangle XYZ; 10:7$
3. not similar   **4.** not similar   **5.** $LMPR \sim QRCK; 1:1$
6. not similar   **7.** similar with ratio $10:11$ **8.** not
similar   **9.** similar with ratio $4:9$

Reteaching 8-3

1. $\triangle ABC \sim \triangle ZYX$ by AA $\sim$ **2.** not similar
3. $\triangle QEU \sim \triangle SIO$ by SSS $\sim$ **4.** $\triangle ABC \sim \triangle RST$
by AA $\sim$ **5.** not similar   **6.** $\triangle BAC \sim \triangle XQR$ by
SAS $\sim$ **7.** yes; by SSS $\sim$ or by AA $\sim$ **8.** No; the
vertex angles may differ in measure.   **9.** All congruent
triangles are similar with ratio $1:1$. Similar triangles are not
necessarily congruent.

Reteaching 8-4

1. $x = \frac{60}{13}; y = \frac{144}{13}; z = \frac{60}{13}$ **2.** $x = \frac{400}{29}; y = \frac{841}{29}$;
$z = \frac{400}{29}$ **3.** $x = 4.8; y = 8$ **4.** $x = 12; y = 16$
5. $x = \sqrt{2}; y = \sqrt{3}; z = \sqrt{6}$ **6.** $x = 2\sqrt{10}$;
$y = \sqrt{15}; z = 2\sqrt{6}$ **7.** $\frac{120}{13}$ **8.** $\frac{65}{\sqrt{85}}; \frac{17\sqrt{85}}{85}$
9. $\frac{ab}{\sqrt{a^2 + b^2}}$

Reteaching 8-5

1. $x = 4.5$ **2.** $x = \frac{9}{2}$ **3.** $x = 7.2; y = 4.8$
4. $x = \frac{12}{5}; y = \frac{9}{2}$ **5.** $x = 9$ **6.** $x = \frac{5}{2}; y = \frac{5}{2}$
7. $BN = \frac{40}{9}; CN = \frac{20}{9}$ **8.** $BY = \frac{3}{2}$

Reteaching 8-6

1. $4:3; 16:9$ **2.** $8:5; 64:25$ **3.** $9:5; 81:25$
4. $4:3$ **5.** $4:5$ **6.** $3:5$ **7.** $16:9$ **8.** $16:25$
9. $9:25$

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Liying Dong

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