

Chapter 8 Answers

Practice 8-1

- 1:278
- 18 ft by 10 ft
- 18 ft by 14 ft
- 18 ft by 16 ft
- 8 ft by 8 ft
- 3 ft by 10 ft
- true
- false
- true
- true
- false
- true
- true
- false
- 12
- 12
- 17
- 12
- 33
- $\frac{21}{13}$
- ± 8
- $\frac{49}{3}$
- 6
- $\frac{1}{3}$
- $-\frac{1}{3}$
- 14:5
- 3:2
- 12:7
- $\frac{1}{3}$
- $\frac{7}{13}$

Practice 8-2

- $\triangle ABC \sim \triangle XYZ$, with similarity ratio 2:1
- $\triangle QMN \sim \triangle RST$, with similarity ratio 5:3
- Not similar; corresponding sides are not proportional.
- Not similar; corresponding angles are not congruent.
- $\triangle ABC \sim \triangle KMN$, with similarity ratio 4:7
- Not similar; corresponding sides are not proportional.
- $\angle F$
- $\angle O$
- $\angle J$
- NO
- $\angle O$
- 3.96 ft
- 4.8 in.
- 3.75 cm
- 10 m
- $\frac{1}{3}$
- 53
- $7\frac{1}{2}$
- $4\frac{1}{2}$
- 55
- 37
- 5

Practice 8-3

- $\angle AXB = \angle RXQ$ because vertical angles are \cong . $\angle A = \angle R$ (Given). Therefore $\triangle AXB \sim \triangle RXQ$ by the AA ~ Postulate.
- Because $\frac{MP}{PQ} = \frac{PL}{LQ} = \frac{2}{3} = \frac{2}{3}$, $\triangle MPX \sim \triangle LWA$ by the SSS ~ Theorem.
- $\angle QMP \cong \angle AMB$ because vertical \angle s are \cong . Then, because $\frac{QM}{MQ} = \frac{PM}{MB} = \frac{1}{2}$, $\triangle QMP \sim \triangle AMB$ by the SAS ~ Theorem.
- $\angle M = \angle A$ (Given). Because there are 180° in a triangle, $m\angle I = 100$, and $\angle I = \angle C$. So $\triangle MAN \sim \triangle ACB$ by the AA ~ Postulate.
- Because $AX = BX$ and $CX = CX$, $\frac{AX}{CX} = \frac{BX}{CX}$, $\angle AXB = \angle CXR$ because vertical angles are \cong . Therefore $\triangle AXB \sim \triangle CXR$ by the SAS ~ Theorem.
- 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 ~ Theorem.
- $\frac{1}{2}$
- $\frac{2}{3}$
- $\frac{4}{5}$
- $\frac{3}{4}$
- $\frac{4}{5}$
- 36
- 33 ft

Practice 8-4

- 16
- 8
- $\sqrt{77}$
- $2\sqrt{11}$
- $10\sqrt{2}$
- $6\sqrt{3}$
- b
- y
- x
- a
- b
- c
- $x = 6, y = 6\sqrt{3}$
- $x = 8\sqrt{3}, y = 4\sqrt{3}$
- $\frac{40\sqrt{10}}{20}$
- $\frac{2}{3}$
- $x = 4\sqrt{5}, y = \sqrt{55}$
- $x = \frac{4}{3}, y = \frac{2}{3}$
- $x = \sqrt{3}, y = \sqrt{6}, z = \sqrt{2}$
- $x = \frac{3}{2}, y = \frac{1}{2}, z = \frac{1}{2}$
- $x = 8, y = 2\sqrt{2}, z = 6\sqrt{2}$
- $2\sqrt{15}$ in.

Practice 8-5

- BE
- EN
- BC
- ED
- $\frac{64}{9}$
- BE
- $\frac{16}{9}$
- 4
- 4
- $\frac{16}{9}$
- $x = \frac{4}{3}, y = \frac{2}{3}$
- $x = \frac{4}{3}, y = \frac{2}{3}$
- $x = \frac{4}{3}, y = \frac{2}{3}$
- 4
- 4
- $x = \frac{4}{3}, y = \frac{2}{3}$
- 2
- 4
- 10

Practice 8-6

- 4:5; 16:25
- 5:3; 25:9
- 3:4; 9:16
- 1:2
- 9:5
- 1:6
- 8:3
- $\frac{25}{9}$ in.²
- $\frac{400}{9}$ cm²
- $\frac{11\pi^2}{9}$ in.²
- 2:3
- 1:2
- 2:5
- 108 ft²

Reteaching 8-1

- 534 apples
- 768 gallons
- 4627 employees
- about 4800 picture frames
- 90
- 2450
- 85
- 560
- 58
- 7308
- 12
- 20,250
- 2500

Reteaching 8-2

- $\triangle KLM \sim \triangle QRS$; 5:3
- $\triangle ABC \sim \triangle XYZ$; 10:7
- not similar
- not similar
- $LMPR \sim QNCA$; 1:1
- not similar
- similar with ratio 10:11
- not similar
- similar with ratio 4:9

Reteaching 8-3

- $\triangle ABC \sim \triangle ZYX$ by AA ~
- not similar
- $\triangle QEU \sim \triangle SJO$ by SSS ~
- $\triangle ABC \sim \triangle RST$ by AA ~
- not similar
- $\triangle BAC \sim \triangle XQR$ by SAS ~
- 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

- $x = \frac{25}{12}, y = \frac{145}{12}, z = \frac{95}{12}$
- $x = \frac{450}{13}, y = \frac{450}{13}$
- $x = 4, y = 8$
- $x = 12, y = 16$
- $x = \sqrt{2}, y = \sqrt{3}, z = \sqrt{6}$
- $x = 2\sqrt{10}, y = \sqrt{15}, z = 2\sqrt{6}$
- $\frac{120}{13}$
- $\frac{42}{\sqrt{85}} = \frac{42\sqrt{85}}{85}$
- $\frac{40}{\sqrt{25} + \sqrt{9}}$

Reteaching 8-5

- $x = 45$
- $x = \frac{5}{2}$
- $x = 72, y = 48$
- $x = \frac{12}{5}, y = \frac{12}{5}$
- $x = 9$
- $x = \frac{3}{2}, y = \frac{3}{2}$
- $BN = \frac{15}{2}, CN = \frac{15}{2}$
- $BY = \frac{1}{2}$

Reteaching 8-6

- 4:3; 16:9
- 8:5; 64:25
- 9:3; 81:25
- 4:3
- 4:5
- 3:5
- 16:9
- 16:25
- 9:25

Chapter 8 Answers

Stephanie Zinn



Chapter 8 Answers:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Chapter 8 Answers**

In a world inundated with monitors and the cacophony of quick conversation, the profound power and mental resonance of verbal artistry frequently diminish into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, situated within the musical pages of **Chapter 8 Answers**, a captivating perform of literary beauty that pulses with natural feelings, lies an unforgettable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this mesmerizing opus courses viewers on an emotional odyssey, lightly revealing the latent potential and profound impact stuck within the elaborate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is main styles, dissect its interesting publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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