

ARE YOU READY? PAGE 515

1. D

2. C

3. A

4. E

$$5. \frac{PR}{RT} = \frac{10}{5} = 2; \frac{QR}{RS} = \frac{12}{6} = 2$$

$\angle PRQ \cong \angle TRS$ by Vert. \angle Thm.
yes: $\triangle PRQ \sim \triangle TRS$ by SAS \sim

$$6. \frac{AB}{FE} = \frac{6}{4} = \frac{3}{2}; \frac{BC}{ED} = \frac{15}{10} = \frac{3}{2}$$

$\angle B \cong \angle E$ by Rt. \angle Thm.
yes: $\triangle ABC \sim \triangle FED$ by SAS \sim

7. $x = 5\sqrt{2}$

$$8. \frac{16}{16\sqrt{2}} = \frac{x}{2x}$$

$$x = 8\sqrt{2}$$

9. $x = 4\sqrt{3}$

10. $x = 2(3) = 6$

$$11. 3(x - 1) = 12$$

$$x - 1 = 4$$

$$x = 5$$

$$12. -2(y + 5) = -1$$

$$y + 5 = 0.5$$

$$y = -4.5$$

$$13. 6 = 8(x - 3)$$

$$6 = 8x - 24$$

$$30 = 8x$$

$$x = 3.75$$

$$14. 2 = -1(z + 4)$$

$$2 = -z - 4$$

$$z = -6$$

$$15. \frac{4}{y} = \frac{6}{18}$$

$$\frac{4}{y} = \frac{1}{3}$$

$$4(3) = y(1)$$

$$y = 12$$

$$16. \frac{5}{8} = \frac{x}{32}$$

$$5(32) = 8(x)$$

$$160 = 8x$$

$$x = 20$$

$$17. \frac{m}{9} = \frac{8}{12} = \frac{2}{3}$$

$$3m = 9(2) = 18$$

$$m = 6$$

$$18. \frac{y}{4} = \frac{9}{y}$$

$$y(y) = 4(9)$$

$$y^2 = 36$$

$$y = \pm 6$$

19. $13.118 \approx 13.12$

20. $37.91 \approx 37.9$

21. $15.992 \approx 16.0$

22. $173.05 \approx 173$

8-1 SIMILARITY IN RIGHT TRIANGLES,
PAGES 518–523

CHECK IT OUT! PAGES 518–520

1. Sketch the 3 rt.
- \triangle
- with
- \triangle
- of
- \triangle
- in corr. positions.

By Thm. 8-1-1, $\triangle LJK \sim \triangle MJL \sim \triangle LJI$.

2a. $x^2 = (2)(8) = 16$
 $x = 4$

b. $x^2 = (10)(30) = 300$
 $x = \sqrt{300} = 10\sqrt{3}$

c. $x^2 = (8)(9) = 72$
 $x = \sqrt{72} = 6\sqrt{2}$

3. $9^2 = (u)(3)$
 $81 = 3u$
 $u = 27$

$v^2 = (3)(3 + w)$

$w^2 = (u)(3 + u)$

$v^2 = (3)(30) = 90$

$w^2 = (27)(30) = 810$

$v = \sqrt{90} = 3\sqrt{10}$

$w = \sqrt{810} = 9\sqrt{10}$

4. Let
- x
- be height of cliff above eye level.

$(28)^2 = 5.5x$

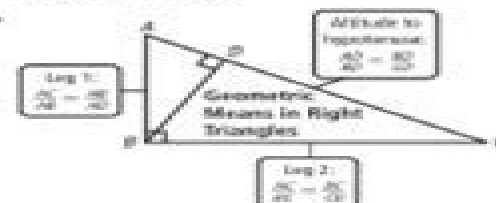
$x = 142.5$ ft

Cliff is about $142.5 + 5.5$, or 148 ft high.

THINK AND DISCUSS, PAGE 520

1. Set up the proportion $\frac{7}{x} = \frac{x}{21}$, and solve for x .
 $x^2 = 7(21) = 147$
 $x = \sqrt{147} = 7\sqrt{3}$

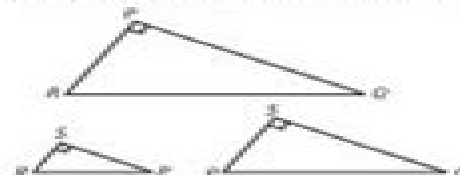
2.



EXERCISES, PAGES 521–523

GUIDED PRACTICE, PAGE 521

1. 8 is geometric mean of 2 and 32.
2. Sketch the 3 rt. \triangle with \triangle of \triangle in corr. positions.

By Thm. 8-1-1, $\triangle RPQ \sim \triangle PSQ \sim \triangle RSP$.

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