

Solutions Key

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ARE YOU READY? PAGE 451

1. E
2. F
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6. $\frac{16}{20} = \frac{4(4)}{4(5)} = \frac{4}{5}$
7. $\frac{14}{21} = \frac{7(2)}{7(3)} = \frac{2}{3}$
8. $\frac{33}{121} = \frac{11(3)}{11(11)} = \frac{3}{11}$
9. $\frac{56}{80} = \frac{8(7)}{8(10)} = \frac{7}{10}$
10. 18 to 24
6(3) to 6(4)
3 to 4
11. 34 to 18
2(17) to 2(9)
17 to 9
12. Total # of CDs is:
 $36 + 18 + 34 + 24 = 112$
36 to 112
4(9) to 4(28)
9 to 28
13. 112 to 24
8(14) to 8(3)
14 to 3
14. yes; pentagon
15. yes; hexagon
16. no
17. yes; octagon
18. $P = 2\ell + 2w$
 $= 2(8.3) + 2(4.2)$
 $= 25$ ft
19. $P = 6s$
 $= 6(30) = 180$ cm
20. $P = 4s$
 $= 4(11.4) = 45.6$ m
21. $P = 5s$
 $= 5(3.9) = 19.5$ in.

7-1 RATIO AND PROPORTION, PAGES 454–459

CHECK IT OUT! PAGES 454–456

1. slope = $\frac{\text{rise}}{\text{run}} = \frac{Y_2 - Y_1}{X_2 - X_1}$
 $= \frac{5 - 3}{6 - (-2)}$
 $= \frac{2}{8} = \frac{1}{4}$
2. Let \angle measures be x , $6x$, and $13x$. Then
 $x + 6x + 13x = 180$. After like terms are combined,
 $20x = 180$. So $x = 9$. The \angle measures are $x = 9^\circ$,
 $6x = 6(9) = 54^\circ$, and $13x = 13(9) = 117^\circ$.
- 3a. $\frac{3}{8} = \frac{x}{56}$
 $3(56) = x(8)$
 $168 = 8x$
 $x = 21$
- b. $\frac{2y}{9} = \frac{8}{4y}$
 $2y(4y) = 9(8)$
 $8y^2 = 72$
 $y^2 = 9$
 $y = \pm 3$
- c. $\frac{d}{3} = \frac{5}{2}$
 $d(2) = 3(5)$
 $2d = 15$
 $d = 7.5$
- d. $\frac{x+3}{4} = \frac{9}{x+3}$
 $(x+3)(x+3) = 4(9)$
 $x^2 + 6x + 9 = 36$
 $x^2 + 6x - 27 = 0$
 $(x-3)(x+9) = 0$
 $x = 3$ or -9

$$4. 16s = 20t$$

$$\frac{t}{s} = \frac{16}{20}$$

$$\frac{t}{s} = \frac{4}{5} = 4.5$$

5. 1 Understand the Problem

Answer will be height of new tower.

2 Make a Plan

Let y be height of new tower. Write a proportion that compares the ratios of model height to actual height.

$$\frac{\text{height of 1st tower}}{\text{height of 1st model}} = \frac{\text{height of new tower}}{\text{height of new model}}$$

$$\frac{1328}{8} = \frac{y}{9.2}$$

3 Solve

$$\frac{1328}{8} = \frac{y}{9.2}$$

$$1328(9.2) = 8(y)$$

$$12,217.6 = 8y$$

$$y = 1527.2 \text{ m}$$

4 Look Back

Check answer in original problem. Ratio of actual height to model height is $1328:8$, or $166:1$. Ratio of actual height to model height for new tower is $1527.2:9.2$. In simplest form, this ratio is also $166:1$. So ratios are equal, and answer is correct.

THINK AND DISCUSS, PAGE 457

1. No; ratio $6:7$ is < 1 , but ratio $7:6$ is > 1 .
2. She can see if cross products are $=$. Since $3(28) = 7(12)$, ratios do form a proportion. Therefore ratios are $=$ and fractions are equivalent.

Definition: A proportion is an eqn. stating that 2 ratios are $=$.	Proportion: If $\frac{a}{b} = \frac{c}{d}$, then $ad = bc$. $\frac{5}{7} = \frac{10}{14}$ and $\frac{7}{5} = \frac{14}{10}$
Proportion	
Example: Possible answer: $\frac{1}{2} = \frac{2}{4}$ is a proportion.	Nonexample: Possible answer: $\frac{1}{2} = \frac{3}{5}$ is not a proportion.

EXERCISES, PAGES 457–459

GUIDED PRACTICE, PAGE 457

1. means: 3 and 2; extremes: 1 and 6
2. av ; bv

$$3. \text{ slope} = \frac{\text{rise}}{\text{run}} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{4 - 3}{1 - (-1)} = \frac{1}{2}$$

$$4. \text{ slope} = \frac{\text{rise}}{\text{run}} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{2 - (-2)}{2 - (-2)} = \frac{4}{4} = 1$$

Holt Geometry Chapter 10 Solutions Key

Daniela Niemeyer



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web in this chapter we shall define fan pressures and examine some of the basic theory of fan design the results of combining fans in series and parallel configurations the theory of fan testing and booster fan installations 10 2 fan pressures a matter that has often led to confusion is the way in which fan pressures are defined in section

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web in this research paper is attempted to design a single stage radial type centrifugal blower for used in required industrial area in this thesis the bower is designed to provide low volume high pressure air for cooling ventilating and exhaust system that handle dust materials or corrosive fumes

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