

Chapter 7: Similar Triangles and Trigonometry

Getting Started, page 370

- i) This is a relationship between two numbers, 3 and 5; so, it is a ratio.
- ii) This is an equation relating two equivalent ratios; so, it is a proportion.
- iii) The two triangles have the same three side and angle measures; so, they are congruent triangles.
- iv) A square is drawn on each side of the right triangle. Since the sum of the area of the blue square (a^2) and the area of the pink square (b^2) is equal to the area of the purple square (c^2), this diagram illustrates the Pythagorean theorem ($a^2 + b^2 = c^2$).
- v) The highlighted side length is the longest side of the right triangle (or opposite the right angle), which is the hypotenuse.
- vi) The highlighted angle is 30° and an acute angle is any angle less than 90° .

2. a)

$$\frac{x}{4} = \frac{9}{36}$$

$$4\left(\frac{x}{4}\right) = 4\left(\frac{9}{36}\right)$$

$$x = \frac{36}{36}$$

$$x = 1$$

b)

$$\frac{10}{15} = \frac{b}{20}$$

$$20\left(\frac{10}{15}\right) = 20\left(\frac{b}{20}\right)$$

$$\frac{40}{3} = b$$

$$13.\bar{3} = b$$

c)

$$\frac{6}{7} = \frac{15}{c}$$

$$\frac{2c}{7} = 5$$

$$7\left(\frac{2c}{7}\right) = 7(5)$$

$$2c = 35$$

$$c = 17.5$$

d)

$$\frac{2d}{9} = \frac{12}{4}$$

$$9\left(\frac{2d}{9}\right) = 9\left(\frac{12}{4}\right)$$

$$2d = \frac{108}{4}$$

$$2d = 27$$

$$d = 13.5$$

e)

$$\frac{a}{5.2} = \frac{7.8}{12.0}$$

$$5.2\left(\frac{a}{5.2}\right) = 5.2\left(\frac{7.8}{12.0}\right)$$

$$a = \frac{40.56}{12.0}$$

$$a = 3.38$$

f)

$$\frac{4.5}{y} = \frac{5.4}{2.4}$$

$$y\left(\frac{4.5}{y}\right) = y\left(\frac{5.4}{2.4}\right)$$

$$4.5 = \frac{5.4y}{2.4}$$

$$2.4(4.5) = 2.4\left(\frac{5.4y}{2.4}\right)$$

$$10.8 = 5.4y$$

$$2 = y$$

3. a) The unknown side length, c , is the hypotenuse.

$$c^2 = 3.6^2 + 4.8^2$$

$$c^2 = 12.96 + 23.04$$

$$c^2 = 36$$

$$c = \sqrt{36}$$

$$c = 6$$

The length of side c is 6.0 m.

b) $c = 17.5$ cm

$$17.5^2 = 14.0^2 + b^2$$

$$306.25 = 196 + b^2$$

$$306.25 - 196 = b^2$$

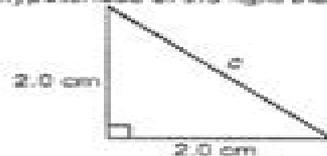
$$110.25 = b^2$$

$$\sqrt{110.25} = b$$

$$10.5 = b$$

The length of side b is 10.5 cm.

4. a) The side length of the sugar cube is 2.0 cm. The distance from corner to corner across the top is the hypotenuse of the right triangle shown.



$$c^2 = 2.0^2 + 2.0^2$$

$$c^2 = 4 + 4$$

$$c^2 = 8$$

$$c = \sqrt{8}$$

$$c = 2.8$$

The distance from corner to corner across the top of the sugar cube is about 2.8 cm.

Rudin Chapter 7 Solutions

**American Physiological Society (1887-
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Rudin Chapter 7 Solutions:

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 - Chapter 3: Rudin Chapter 7 Solutions in Everyday Life
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