

Chapter 7: Similar Triangles and Trigonometry

Getting Started, page 370

1. a) i) This is a relationship between two numbers, 3 and 5; so, it is a ratio.
 b) iv) This is an equation relating two equivalent ratios; so, it is a proportion.
 c) v) The two triangles have the same three side and angle measures; so, they are congruent triangles.
 d) ii) 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 ($a^2 + b^2 = c^2$).
 e) i) The highlighted side length is the longest side of the right triangle (or opposite the right angle), which is the hypotenuse.
 f) 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) $\frac{2}{5} = \frac{b}{20}$
 $20\left(\frac{2}{5}\right) = 20\left(\frac{b}{20}\right)$
 $\frac{40}{5} = b$
 $8 = b$

c) $\frac{2}{7} = \frac{5}{c}$
 $c\left(\frac{2}{7}\right) = c\left(\frac{5}{c}\right)$
 $\frac{2c}{7} = 5$
 $7\left(\frac{2c}{7}\right) = 7(5)$
 $2c = 35$
 $c = 17.5$

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.

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