#### Chapter 7: Similar Triangles and Trigonometry

#### Getting Started, page 370

 a) ii) 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) iii) A square is drawn on each side of the right triangle. Since the sum of the anal of the title square (a<sup>2</sup>) and the area of the pink square (b<sup>2</sup>) is equal to the area of the purple square (c<sup>2</sup>), this diagram illustrates the Pythagorean theorem (a<sup>2</sup> + b<sup>2</sup> = c<sup>2</sup>).
e) ii) 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)  $\frac{2}{5} = \frac{b}{20}$   
 $20\left(\frac{2}{5}\right) = 20\left(\frac{b}{20}\right)$   
 $\frac{40}{5} = b$   
 $8 = b$   
 $6 = \frac{2}{7} = \frac{5}{6}$   
 $c\left(\frac{2}{7}\right) = c\left(\frac{5}{6}\right)$   
 $\frac{2c}{7} = 5$   
 $7\left(\frac{2c}{7}\right) = 7(5)$   
 $2c = 35$   
 $c = 17.5$   
6)  $\frac{2d}{9} = \frac{12}{4}$   
 $9\left(\frac{2d}{9}\right) = 9\left(\frac{12}{4}\right)$   
 $2d = \frac{108}{4}$   
 $2d = \frac{108}{4}$ 

d' = 13.5

e) 
$$\frac{6}{5.2} = \frac{7.0}{12.0}$$
  
 $5.2 \left(\frac{3}{5.2}\right) = 5.2 \left(\frac{7.8}{12.0}\right)$   
 $a = \frac{40.56}{12.0}$   
 $a = 3.38$   
f)  $\frac{4.5}{y} = \frac{5.4}{2.4}$   
 $y \left(\frac{4.5}{y}\right) = y \left(\frac{5.4}{2.4}\right)$   
 $4.5 = \frac{5.4y}{2.4}$   
 $2.4(4.5) = 2.4 \left(\frac{5.4y}{2.4}\right)$   
 $10.8 = 5.4y$   
 $2 = y$ 

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

$$c^2 = 3.6^2 + 4.8^2$$
  
 $c^2 = 12.96 + 23.04$   
 $c^2 = 36$   
 $c = \sqrt{36}$   
 $c = 6$ 

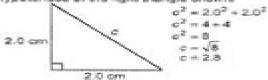
The length of side c is 6.0 m.

b) 
$$c = 17.5$$
 cm  
 $17.5^2 - 14.0^2 + b^2$   
 $306.25 = 196 + b^2$ 

$$306.25 - 196 = b^2$$
  
 $110.25 = b^2$ 

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 comer to corner across the top is the hypotenuse of the right triangle shown.



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

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