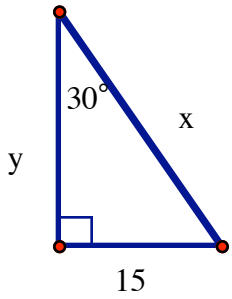
Chapter 7: Right Triangles
Lesson 7-3: Special Right Triangles
Homework KEY

name _____
date _____
period ___

Solve for x and y:

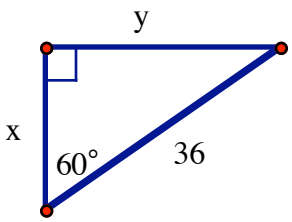
1.



x = 30

y = $15\sqrt{3}$

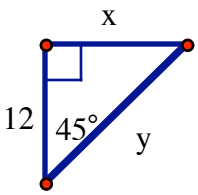
2.



x = 18

y = $18\sqrt{3}$

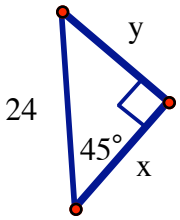
3.



x = 12

y = $12\sqrt{2}$

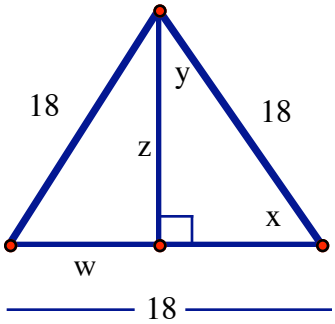
4.



x = $12\sqrt{2}$

y = $12\sqrt{2}$

5.



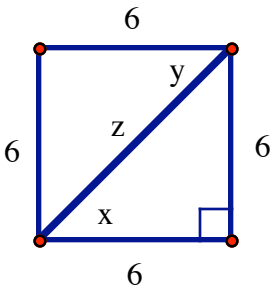
w = 9

x = 60

y = 30

z = $9\sqrt{3}$

6.

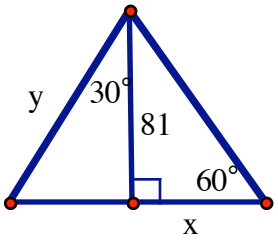


x = 45

y = 45

z = $6\sqrt{2}$

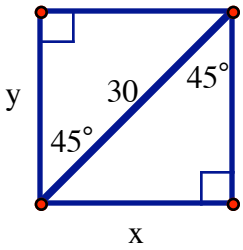
7.



x = $27\sqrt{3}$

y = $54\sqrt{3}$

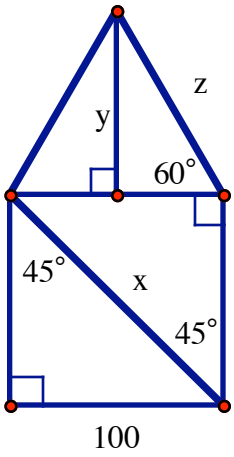
8.



x = $15\sqrt{2}$

y = $15\sqrt{2}$

9.

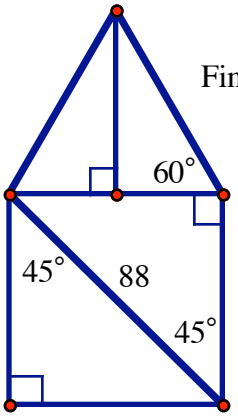


x = $100\sqrt{2}$

y = $50\sqrt{3}$

z = 100

10.



Find the Perimeter of the outer shape.

P = $220\sqrt{2}$

11. Find the length of the side of a square whose diagonal is 24 cm.

(I) sketch

(II) equation

(III) answer $12\sqrt{2}$

12. The sides of an equilateral triangle measure 30 m. Find the measure of the altitude.

(I) sketch

(II) equation

(III) answer $15\sqrt{3}$