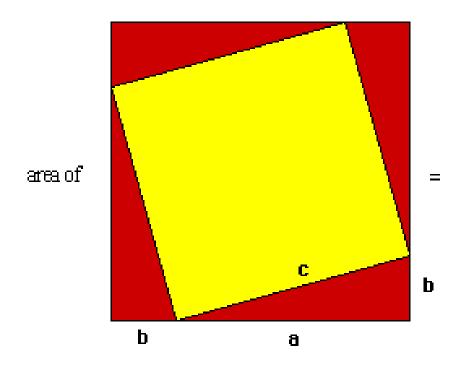
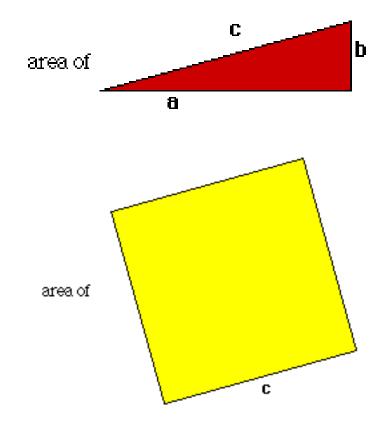
Warm-Up

Find the area of the figure.

<u>Right side of class.</u>



Left side of class.



Essential Skill 2: Congruent Triangles

LT 2.4 Properties of Triangles (Special Right Triangles)

Learning Objective Pg. 15

I will be able to . . .

- * Use properties of 45°-45°-90° triangles.
- * Use properties of 30°-60°-90° triangles.

Glossary Pg. 27

LT 2.4 Glossary Review: Special Right Triangles

This is an alphabetical list of the key vocabulary terms you should remember. As you study the learning target, remember to review the vocabulary before the exams.

Vocabulary Term	Definition/Description/Example	Drawing
Pythagorean Theorem	If a and b are the measures of the legs of a right triangle and c is the measure of the hypotenuse, then $a^2 + b^2 = c^2$	

LT 2.4 New Glossary: Special Right Triangles

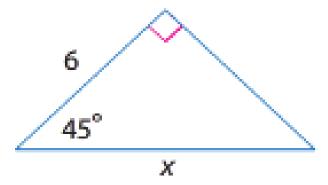
This is an alphabetical list of the key vocabulary terms you will learn.

As you study the learning target, remember to review the vocabulary before the exams.

Vocabulary Term	Definition/Description/Example	Drawing
45°-45°-90° Triangle	In a 45°-45°-90° triangle, the legs l are congruent and the hypotenuse h is $\sqrt{2}$ times the length of the leg. $l = l$ $h = l\sqrt{2}$	$A = 45^{\circ}$ C
30°-60°-90° Triangle	In a 30°-60°-90° triangle, the length of the hypotenuse h is 2 times the length of the shorter leg s , and the length of the longer leg l is $\sqrt{3}$ times the length of the shorter leg. $h = 2s$ $l = s\sqrt{3}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

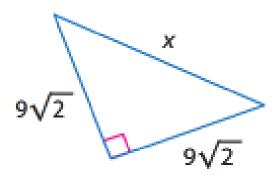
Example 1: 45°-45°-90°

Find the hypotenuse length (find the value of x)



Example 1a

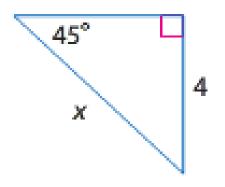
Find the hypotenuse length (find the value of x)

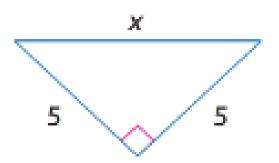


Example 1b

Example 1c

Find the hypotenuse length (find the value of x)

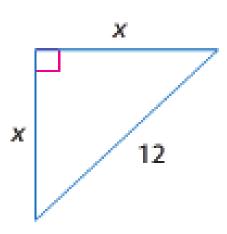




Given:

Example 1d

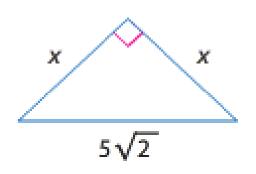
Find the hypotenuse length (find the value of x)

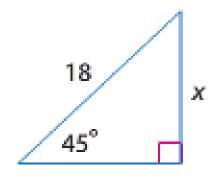


Example 1e

Example 1f

Find the hypotenuse length (find the value of x)





Given:

Homework

Class:

Complete Skills Practice #1-6 all Simples Form Handout (middle column) Multiplying Square Roots #2-12 even

Honors:

Complete Honors Skills Practice #1-6 all Simples Form Handout (middle column) Multiplying Square Roots #2-12 even