

Area

## Area

- Area is the amount or extent of surface, especially the measure in square units of a two-dimensional (plane) figure of limited extent.
- A carpenter would need to know how to measure and calculate the area of a room in order to order and install flooring.


## Area of a Square

## Formula

- The formula for calculating the area of a square is:
- $A=L \times W$


## Area of a Square

Area of a Square
A = LxW


## Area of a Rectangle

## Formula

- The formula for calculating the area of a rectangle is:
- $A=L \times W$


## Area of a Rectangle

Area of a Square
$A=L \times W$


## Area of a Triangle

## Formula

- The formula for calculating the area of a triangle is:
- $A=1 / 2 b H$


## Area of a Triangle

Think of a triangle as a rectangle that has been cut in half diagonally.

Area of a Triangle
$A=1 / 2 b H$

b

## Area of a Triangle

- A carpenter would need to know how to measure and calculate the area of a triangle in order to install siding on the gable end of a roof.


## Calculating the Area of a Gable End



Total Length

## Area

- Square or Rectangle:
- A = L x W
- Triangle
- $A=1 / 2 \times B \times H$


## Properties of Right Triangles

- $a^{2}+b^{2}=c^{2}$

The
Pythagorean Theorem


## Properties of Right Triangles

- When working with non-right triangles, always divide them into two separate right triangles.


