

Area

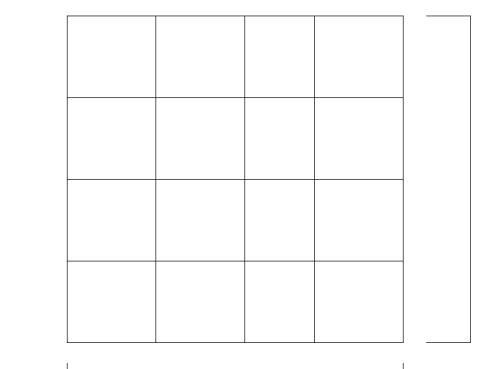
- Area is the amount or extent of surface, especially the measure in square units of a two-dimensional (plane) figure of limited extent.
- A carpenter would need to know how to measure and calculate the *area* of a room in order to order and install flooring.

Area of a Square



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

Area of a Square



Area of a Square

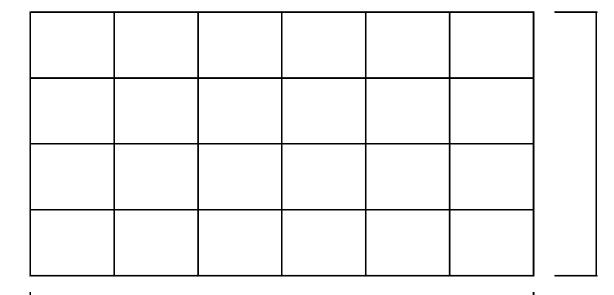
 $A = L \times W$

Area of a Rectangle

Formula

• The formula for calculating the area of a rectangle is:

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:
- $A = \frac{1}{2} b H$

Area of a Triangle

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

b

Η

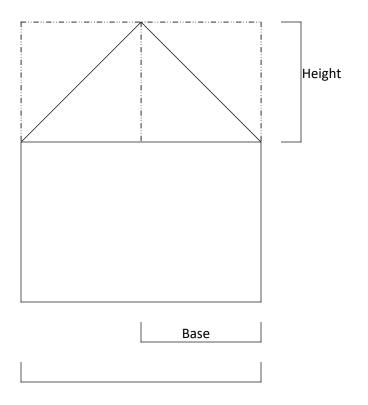
Area of a Triangle

 $A = \frac{1}{2} b H$

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

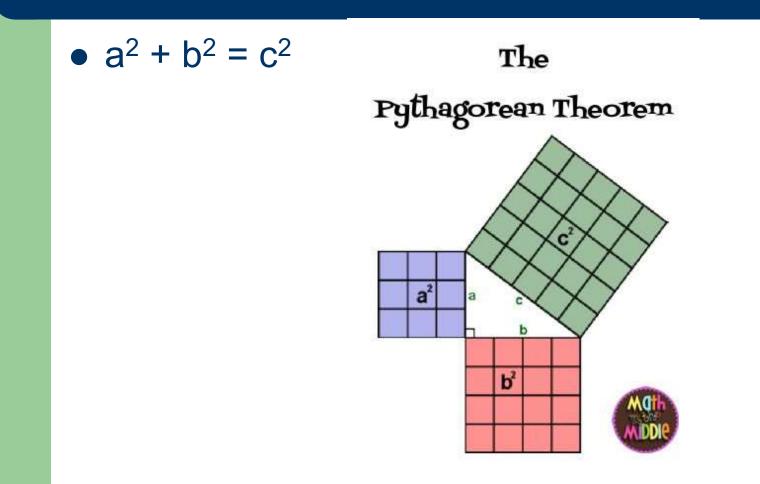


Total Length



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

Properties of Right Triangles



Properties of Right Triangles

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

