

Answer on Question #43844 – Math – Geometry

What is area? What is the area of a square, area of a triangle and area of a rectangle?

Solution:

Area is the size of a surface. In technical terms, area means the number of square units that can fit inside the object whose area you are looking to find.

Area of a square.

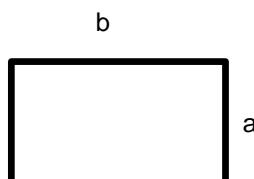
Given a square with side length a :



The formula for the area is: $A = a^2$

Area of a rectangle.

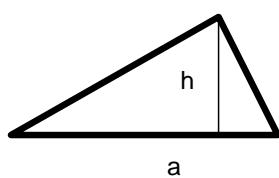
Given a rectangle with length b and width a :



The formula for the area is: $A = ab$

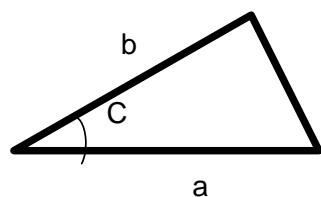
Area of a triangle.

Given a triangle with base length a and height h :



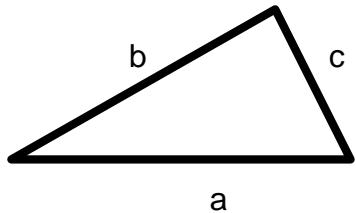
The formula for the area is: $A = \frac{1}{2}ah$.

Given a triangle with sides a, b and the angle C :



The formula for the area is: $A = \frac{1}{2}ab \sin C$

Given a triangle with sides a, b and c :



The formula for the area is: $A = \sqrt{p(p - a)(p - b)(p - c)}$

Where $p = \frac{a+b+c}{2}$