From Pythagorean Theorem

$$c^2 = a^2 + b^2$$

$$b^2 = c^2 - a^2$$

$$c = 2a$$

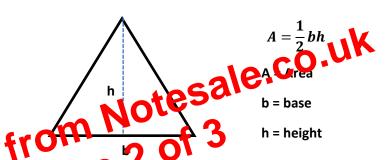
$$b^2 = (2a)^2 - a^2$$

$$b^2 = 4a^2 - a^2$$

$$b^2 = 3a^2$$

$$b = \sqrt{3}a$$

Area of a Triangle



Area of a transgle is the half of the roduct of base and height.

Review

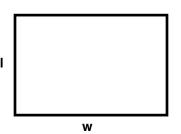
Area of a Rectangle:

$$A = wl$$

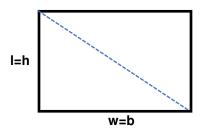
A = Area

I = length

w = width



If a rectangle was divided diagonally, it will create 2 equal triangles, thus the area of each triangle is half the area of the rectangle



$$A=\frac{1}{2}wl$$



$$A=\frac{1}{2}bh$$