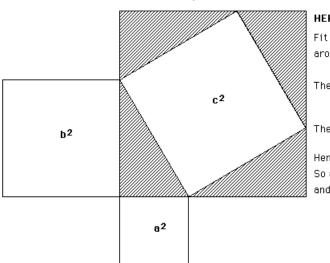


## Pythagoras – Quantum Leaps

## PYTHAGORAS'S THEOREM

In a right angled triangle the area of the square on the hypotenuse is the sum of the areas of the squares on the other two sides.



## HERE IS A PROOF:

Fit copies of the triangle around  $c^2$ .

The area of the big square is area (a+b)<sup>2</sup>

The triangle's area is ab/2.

Hence  $(a+b)^2 = c^2+4(ab/2)$ . So  $a^2+2ab+b^2 = c^2+2ab$ and thus  $a^2+b^2 = c^2$ .

