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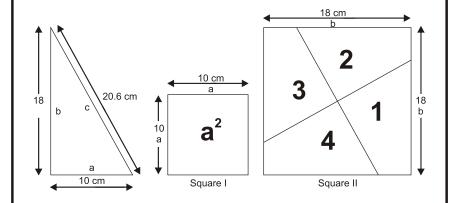
PYTHAGORUS THEOREM

To show that in a right angled triangle square of the hypotenuse is equal to the sum of the squares of the other two sides.

Assembly:

Consists of a right angled triangle & two squares cut out of 12 mm Eva rubber sheet of following sizes. The square 2 is cut into 4 pieces of shape as shown below.

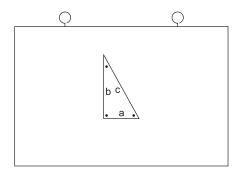
A base of 440 mm x 390 mm made out of 12 mm Eva rubber with hooks and pins are part of the kit.



To do and observe:

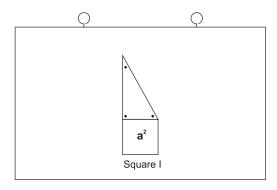
Step 1:

Take the given right angled triangle and fix it to the base as shown in the diagram.



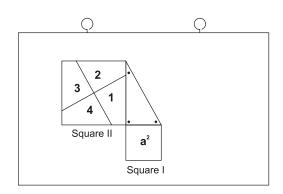
Step 2:

Fix the square 1 to the base of the right angled triangle as shown.



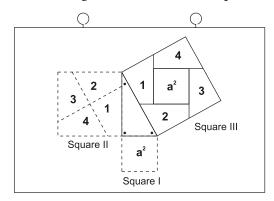
Step 3:

Arrange the four piece of square 2 to adjacent side of the right angled triangle as shown below.



Step 4:

Now arrange the 4 pieces of square 2 and square 1 on the hypotenuse of the triangle as shown to form square 3



Observe that area of square III

- = area of square I + Area of 4 pieces of square II
- = Area of square I + Area of square II

Result:

Area of the square formed on the hypotenuse of the right angled triangle is equal to the sum of the areas of the squares formed on the other two sides.