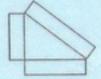
PYTHAGORAS RODS

RIALS

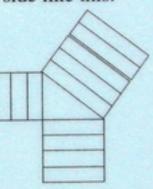
nree [3] light green rods, four [4] pink rods, five [5] yellow rods, six [6] dark green rods, eight [8] brown rods, ten [10] orange rods

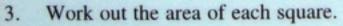
Measure the length (in centimetres) of one rod of each colour.

Use one each of the 3, 4, 5 rods to make a right angled triangle like this:



Now build a square onto each side like this:





- 4. Find three different ways of placing the two smaller squares onto the larger one to illustrate that: $3^2 + 4^2 = 5^2$
- 5. Use the 6, 8, 10 rods in a similar way to *first* build a right angle triangle *and then* show that the two smaller squares can be exactly placed on top of the larger square.

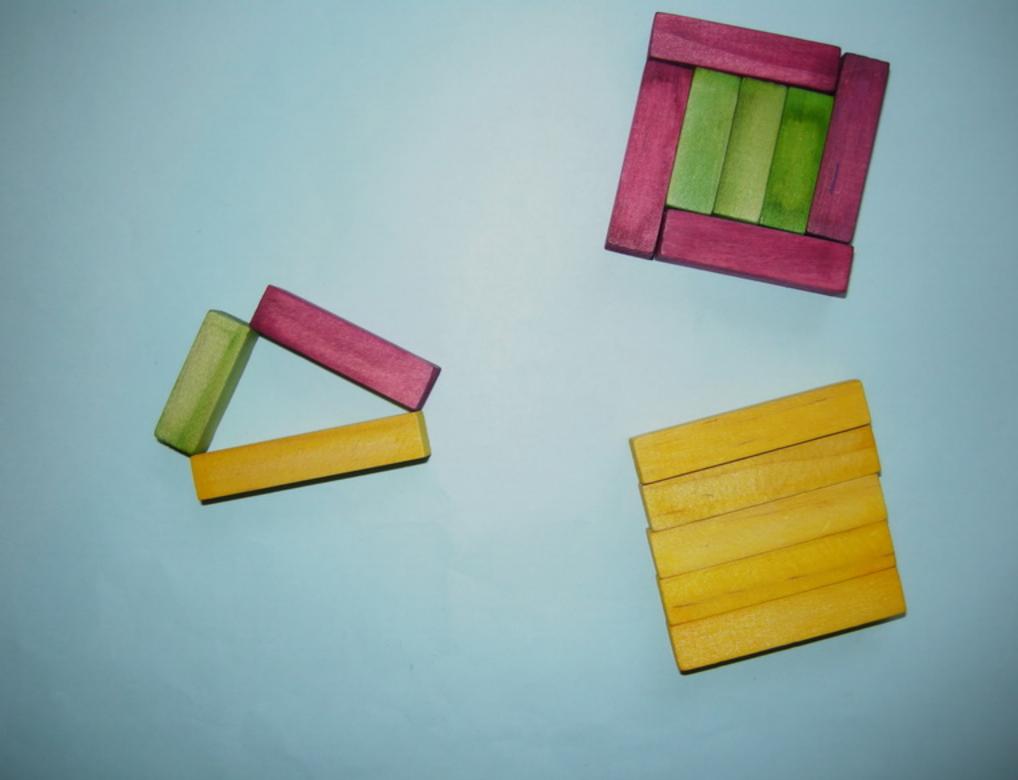
You are demonstrating Pythagoras' Theorem.

6. Build a 5, 8, 10 triangle and then build a square on each side.

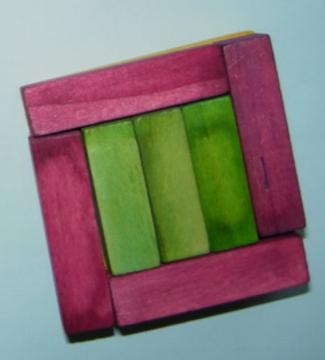
Does Pythagoras' Theorem work? - why? or why not?











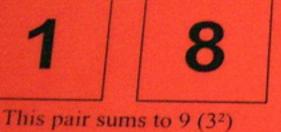
SQUARE PAIRS

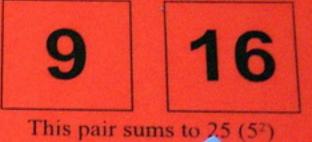
MATERIALS

Tiles numbered 1 [one] to 20 [twenty]

1. Arrange the tiles in a list from 1 [one] to 16 [sixteen]. Use the tiles to make 8 pairs so that each pair adds to a square number.

NB: The sum of each pair does NOT have to be the same square number.





so makes square pairs. What is it?



2 20 there is two other I;

search fo to lists longer that