

Hi , I'm a RAT!

No, not a rat.
I'm a R.A.T.
A Right-Angled
Triangle!



I was a square once but an elephant sat on me. Now I'm a parallelogram.


"No, No!
I am a Right-Angled Triangle House."

"No, No! It was Philip and Sofia"


"They wanted to have a garden.
So I made them three square gardens:
One big one for Philip.
Two smaller ones for Sofia."
"That's not fair," said Sofia. "Philip has more garden than me!"
"Yes, it is fair," said RAT. "Mr Euclid, who lives next door, told me. Let's go and ask him."

"Well, let me show you something," said Mr Euclid. "Let's just start with the RAT house and Philip's big garden. Let's pretend it could be
 on the other side of the long line of the triangle"

"Now, let's look at Philip's garden"


Let's move the pieces like this:
Move 1 over to the other side.
Move 2 up to complete the square.
Then slide 3 down and put 4 on the outside.
So we have made Sofia's two gardens out of Philip's garden


So now Philip and Sofia both have gardens.
Philip has one big one and Sofia has two smaller ones.
But both Philip and Sofia have the same amount of garden.


## Who was Euclid?

He was a Greek who lived 2300 years ago in Alexandria, Egypt. He made many discoveries in maths, including this one
About right-angle triangles.
Studying how shapes fit together is called GEOMETRY



