



Puzzle time

A square triangle ??????????

This is a problem for our older puzzlers.

It may seem very peculiar to you but I've just drawn a triangle where all the angles are square.

No, I don't mean right angles or 90° - that's impossible!

What I do mean is that each angle, measured in degrees, is a square number.

Can you tell me how many degrees each of the angles is?

Help!



Clue: the total of the three angles in a triangle is 180° .

Can you remember what square numbers are?

Try 1×1 , 2×2 , etc



Find the answer on the next page.



Puzzle time

A square triangle - answer

Remember the problem: a triangle with all the angles being square numbers!

The clue was that the total of the three angles in a triangle is 180° .

You get a square number by multiplying a number by itself, so:

The square numbers are:

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$

$$6 \times 6 = 36$$

$$7 \times 7 = 49$$

$$8 \times 8 = 64$$

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

There are three angles in a triangle (Yes there are!) so which three square numbers make 180 ?

The answer is:

$$100 + 64 + 16$$