**The mystery of the Isosceles Triangle**

Once upon a time in some kingdom there lived triangles. They came to life thanks to a jogged closed line, which consisted of three components. The sides of the triangles were absolutely even. As well as this, they had vertexes- the guardians, who protected them from the attacks of wavy lines, which wanted to become parts of the triangles. To make the guardians see from the distance, they were given names after the capital letters of the Latin alphabet.

In the kingdom all inhabitants differed by the angles they had. For instance, if all angles in a triangle were acute, it was called an acute triangle. If one of the angles was obtuse, it was named obtuse angled. And what is more, if a triangle had a right angle, its name was a right triangle.

In this kingdom also lived an isosceles triangle, which had two sides of the same length. This triangle knew one really important mystery which was unknown even to the guardians- vertexes. He knew that the sum of angles in every triangle adds to 1800.

One night in the kingdom happened a tragedy, there came an angry wizard and stole one degree. He took that degree and went away by the flying carpet to his own kingdom. This was the end of the triangles’ existence, they broke into segments, there remained only one isosceles triangle, because the angry wizard didn’t find it. The army which consisted of the triangles vertexes was gathered and they went through the seas, and fields to the faraway places to save one degree, but the isosceles triangle was their leader. It took them a long time, but they came to the castle gates, which were locked with a huge lock and to unlock it they had to solve a task.

*The task:*

*One of the angles at the vertex of the isosceles triangle is 30 . Calculate all the other angles.*

The guardians were thinking for a long time, but could not solve it. Then they asked the isosceles triangle for help and he told them that the base angles are congruent. The task was done, the angles were found. The angles were 750 each.

The lock opened, the angry wizard died, one degree was free and came home with the army. Since then all triangles lived happily ever after.