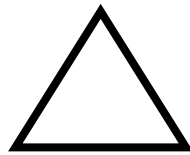


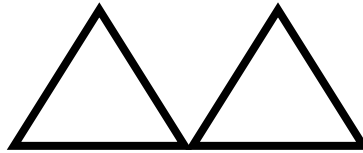
Tri-Triangles

Level A

Lisa is making triangle patterns out of toothpicks of all the same length. A triangle is made from three toothpicks. Her first pattern is a single triangle.

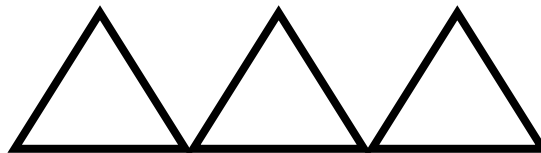


Her second pattern is shown below.



How many toothpicks are needed for her second pattern?

Her third pattern is shown below.



How many toothpicks are needed for her third pattern?

If she continues the same pattern, how many toothpicks are needed for the fifth pattern?

How many toothpicks are needed for the tenth pattern?

If you had 27 toothpicks, what pattern number could you make?

Explain how you know.

