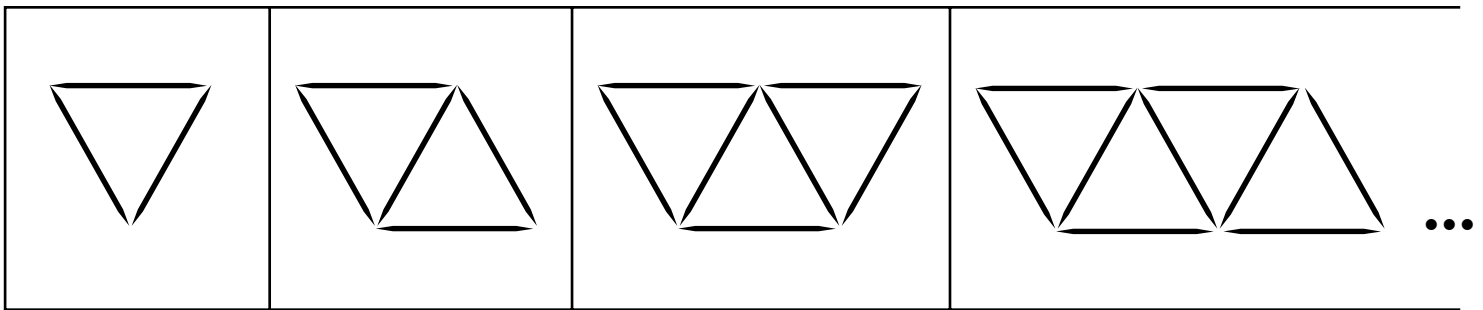


COUNTDOWN CHALLENGE

Toothpick Patterns: *Difficult*

Each figure is made up of toothpicks. Assume that the sequence of figures continues with each figure increasing in size in a similar manner. How many toothpicks will be needed to create the 15th picture in the sequence.



Use words, symbols or diagrams to solve the problem. Also, explain in words the steps you took to solve the problem and why you took those steps.
