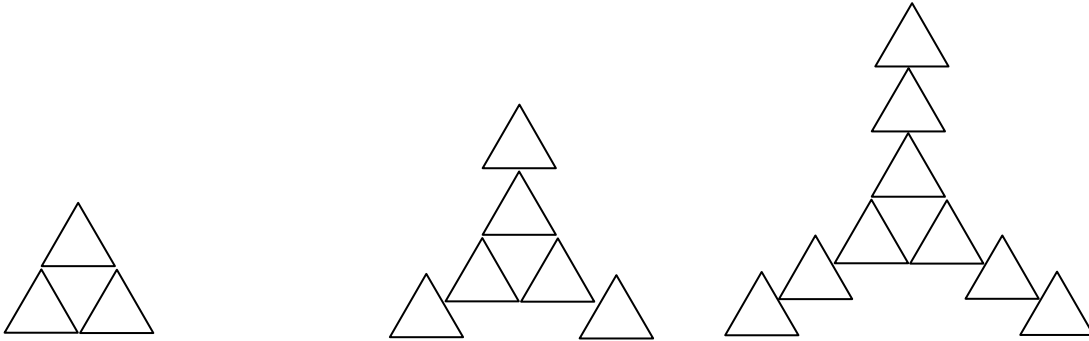


# Triangle Pattern



- Make a table that shows the number of triangles for each design.
- Describe (in words) what Design #4 will look like.
- How many pieces are needed for the 5<sup>th</sup> design? The 20<sup>th</sup>? The 100<sup>th</sup>? Explain your reasoning.
- Write a rule that gives the total number of pieces to build Design #n.

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## Gas Mileage

A car gets 23 miles per gallon of gas. It has a gas tank that holds 20 gallons. Suppose you were on a trip and had filled the tank at the start of the trip. What formula would describe the gallons left if you knew how many miles you had traveled so far?