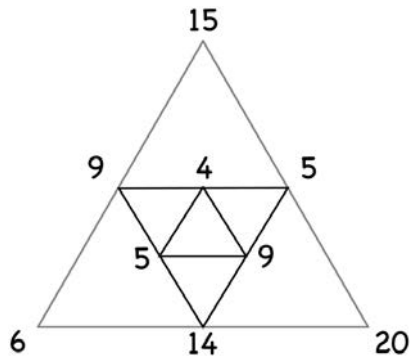


# Puzzle of the Week

## *Difference Triangles*

Start by putting numbers in the corners of a triangle. Then, put the differences of those numbers in the middle of the sides and make a new triangle with those differences. Continue this process and see where it takes you.



**THE CHALLENGE:** 1) Are there starting numbers for which this will go on forever without repeating, or does it always settle down into a simple pattern eventually? 2) If there is a simple ending pattern, what is it? 3) For which starting numbers will it end up with three 0's?

