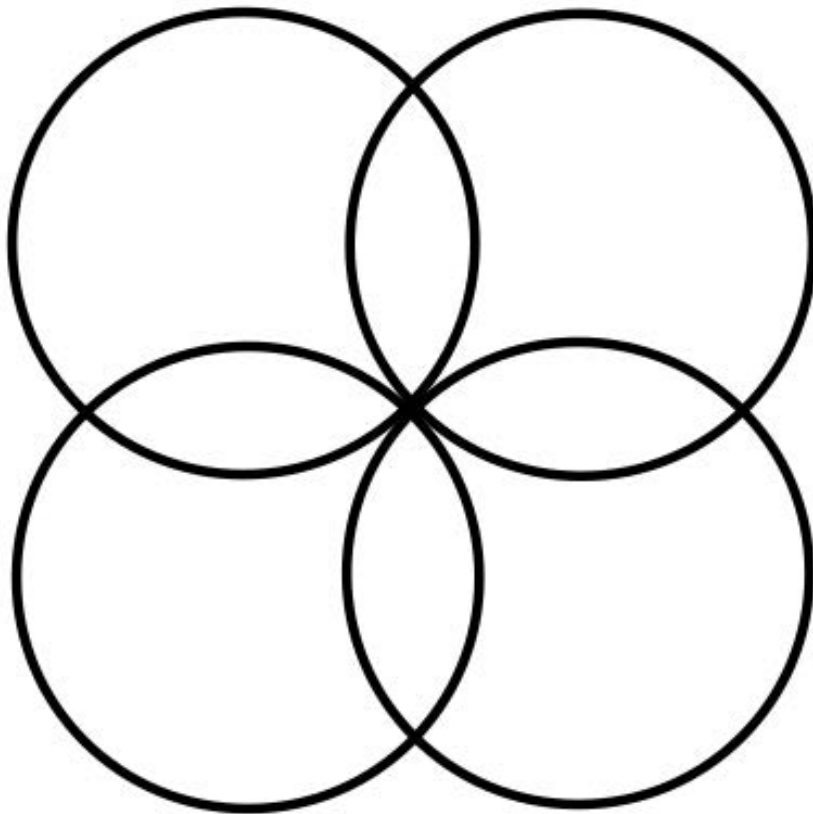


# Puzzle of the Week

## *Equal Sums – 4*

**THE CHALLENGE:** Here is a diagram created by overlapping four circles. The overlapping circles create eight regions. Put a number in each of the eight regions, using each of the numbers 1 to 8 exactly once, so that the sum of the numbers in each circle is the same.



1 2 3 4 5 6 7 8

**EXPLORATION:** How many different answers can you find? Do you think there are any more? What happens if you use other number ranges? Are there other interesting problems like this with intersecting circles?