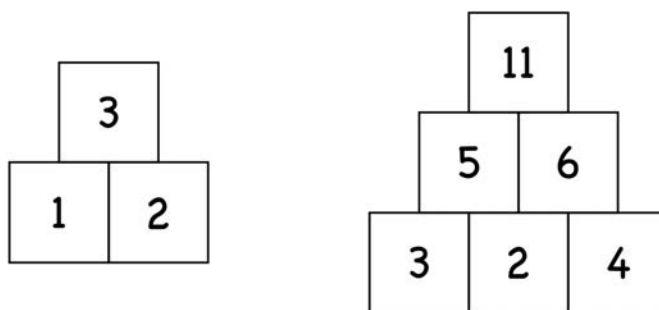


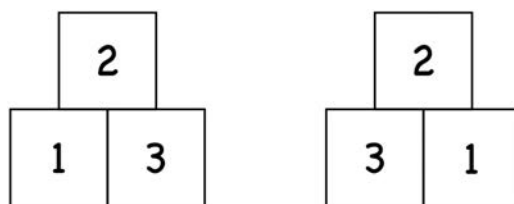
Puzzle of the Week

Sum Pyramids – 5

These pyramids are called *Sum Pyramids*. The number on top is the sum of the two numbers below it.



These pyramids are called *Difference Pyramids*. The number on top is the difference of the two numbers below.



THE CHALLENGE: Describe how any Sum Pyramid can easily be turned into a Difference Pyramid. Can you find an example of a Difference Pyramid that cannot be easily turned into a Sum Pyramid?

Puzzle of the Week

Sum Pyramids – 5 – Notes

THE CHALLENGE: To make a Difference Pyramid out of any Sum Pyramid, simply rotate the Sum Pyramid onto its left or right side!

What can go wrong in wanting to turn a Difference Pyramid into a Sum Pyramid, is that the differences may not always go in the same direction. Neither of the following Difference Pyramids can be turned into a Sum Pyramid without a complete rearrangement of the numbers. That's because they both have a 6 in the middle of a side, and any Sum Pyramid with the numbers 1 to 6 must have the 6 at the tip.

