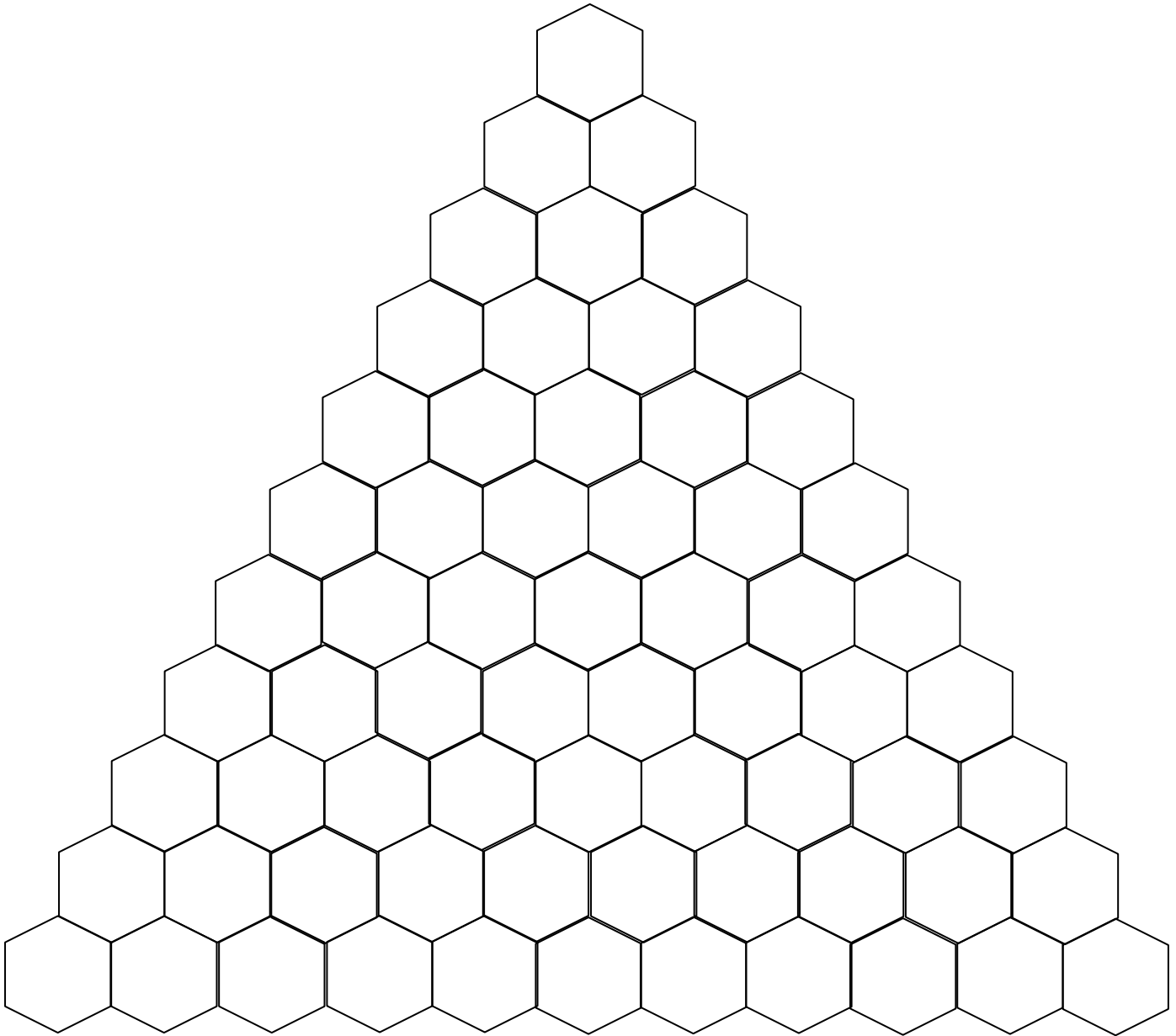
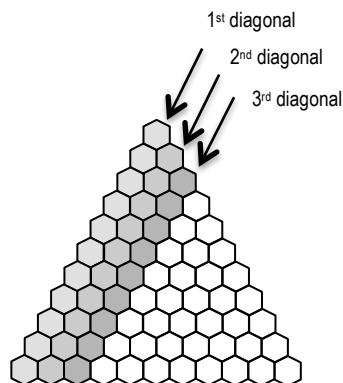


Pascal's Triangle



Put 1 at the top. Each space below is the sum of the 2 numbers above it.

Pascal Triangle Patterns



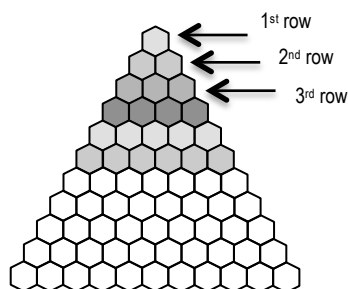
Diagonal Patterns

What patterns do you see on the diagonals?

Diagonal 1: _____

Diagonal 2: _____

Diagonal 3: _____



Horizontal Sums

Sum the numbers across each row.

Row 1 sum: _____

Row 2 sum: _____

Row 3 sum: _____

Row 4 sum: _____

Row 5 sum: _____

Row 6 sum: _____

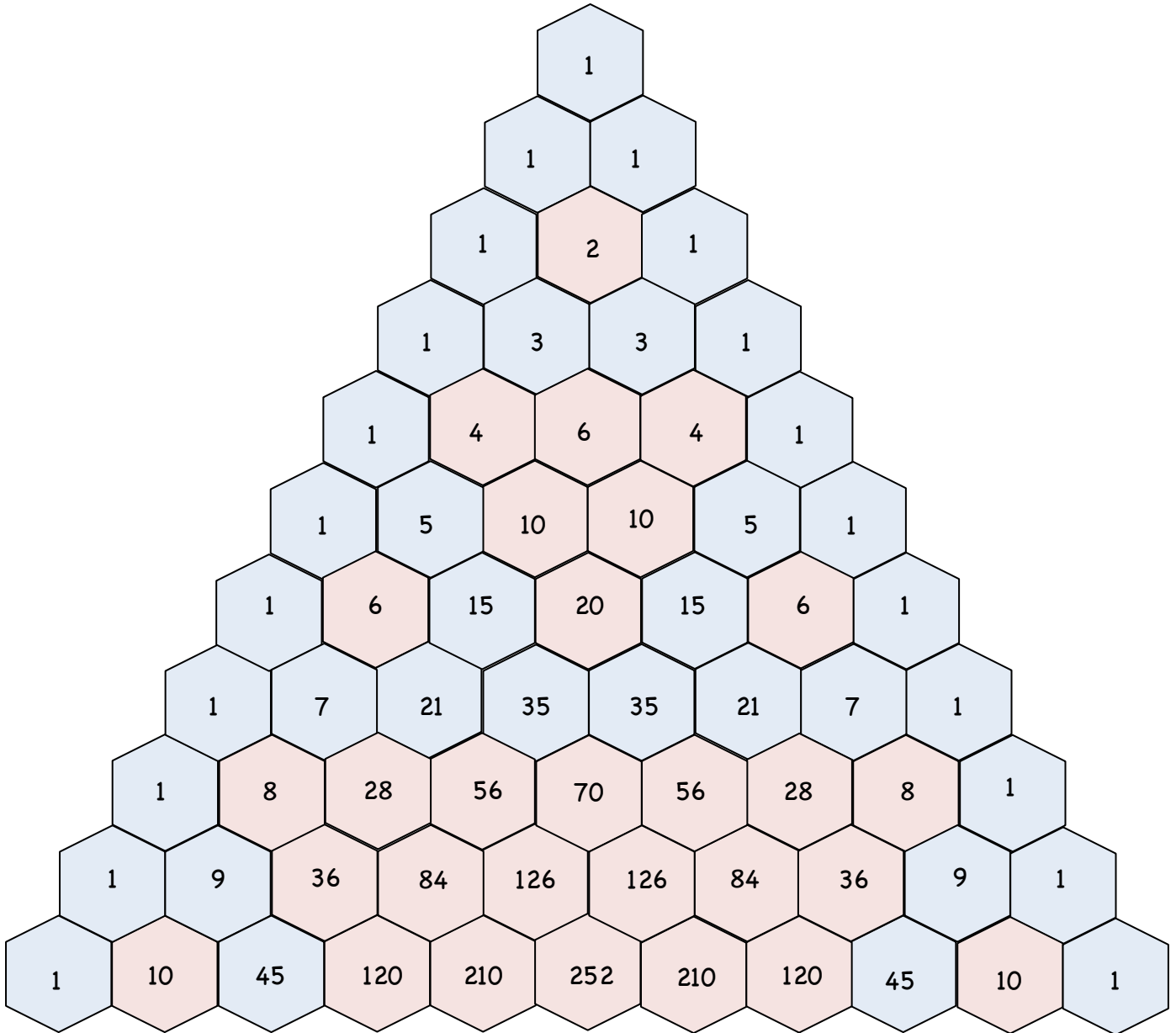
What pattern do you see?

Pattern: _____

Odds and Evens

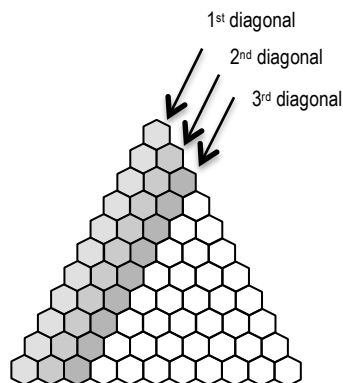
Take your Pascal Triangle. Color odd numbers one color and then color even numbers another color. Do you recognize the pattern?

Pascal's Triangle



Put 1 at the top. Each space below is the sum of the 2 numbers above it.

Pascal Triangle Patterns



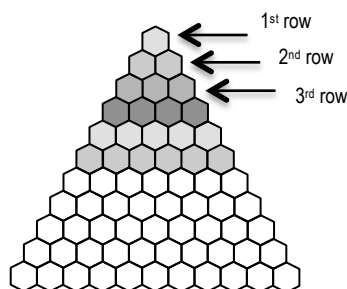
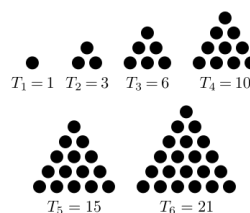
Diagonal Patterns

What patterns do you see on the diagonals?

Diagonal 1: all ones

Diagonal 2: counting numbers

Diagonal 3: triangular numbers (see below)



Horizontal Sums

Sum the numbers across each row.

Row 1 sum: 1

Row 2 sum: 2

Row 3 sum: 4

Row 4 sum: 8

Row 5 sum: 16

Row 6 sum: 32

What pattern do you see?

Pattern: powers of 2

Odds and Evens

Take your Pascal Triangle. Color odd numbers one color and then color even numbers another color. Do you recognize the pattern?

If you have enough rows, coloring the odds and evens different colors results in a pattern that looks like a Sierpinski triangle (shown at right).

