

Pascal's Triangle Worksheet

Name _____

Complete Pascal's Triangle and use it to determine the pattern for the following sequences. Divide the numbers in each of the hexagons by 5, assign each remainder a color, and shade each hexagon according to the color. Cut out the triangle and with five other people, form a hexagon and mount it on a piece of heavy paper.

Remainder Color

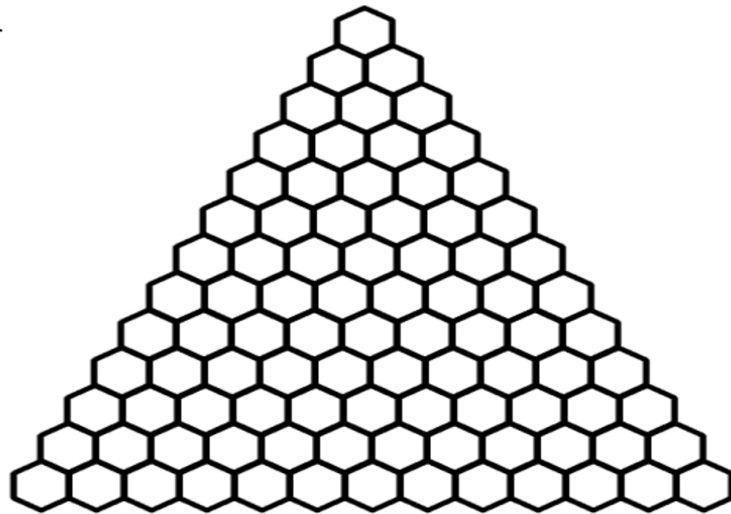
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1

2

3

4



Explain how to find each set of numbers from the triangle.

1. Natural Numbers 1,2,3,4, ...

6. Hexagonal Numbers 1,6,15,28,...

2. Powers of 2 2,4,8,16,...

7. Pentatope Numbers 1,5,15,35,70

3. Powers of 11 11,121,1331,14641

8. Catalan Numbers 1,2,5,14,42

4. Triangular Numbers 1,3,6,10,...

9. Fibonacci Numbers 1,1,2,3,5,8, ...

5. Tetrahedral Numbers 1,4,10,20, ...