Pascal's Triangle

Row 1   1

Row 2   1   1

Row 3   1   1

Row 4   1   1

Row 5   1   1

Row 6   1   1

Row 7   1   1

Row 8   1   1

Row 9   1   1

Row 10   1   1

Diagonal 1
Diagonal 2
Diagonal 3
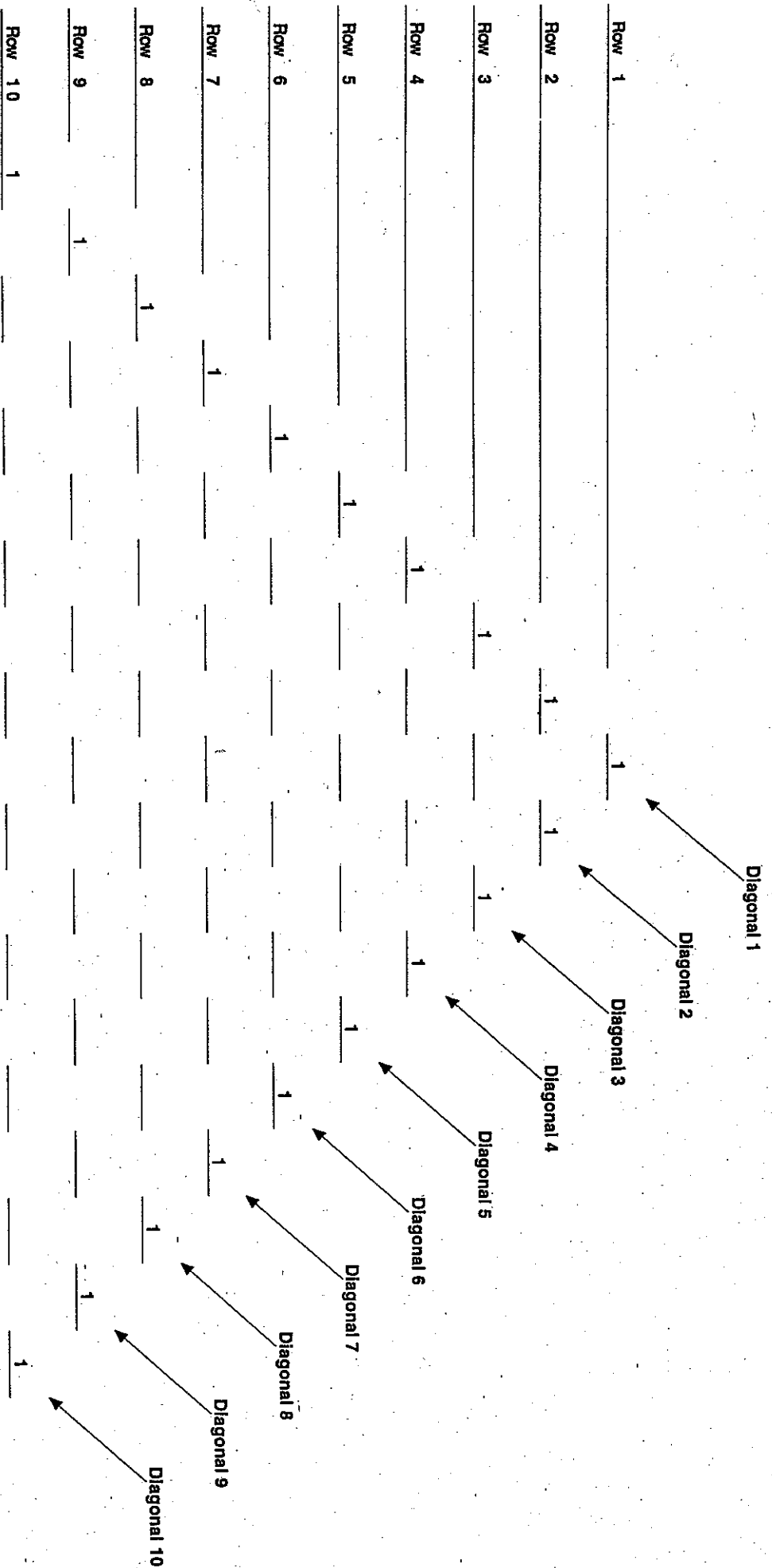Diagonal 4
Diagonal 5
Diagonal 6
Diagonal 7
Diagonal 8
Diagonal 9
Diagonal 10

Each number in this triangle, except for the first and the last, is the sum of the two numbers immediately above.

The numbers actually represent the number of combinations of n objects taken r at a time ($_nC_r$).

Row # = n+1,   **Number position = r+1**

For example: The 7th row and its 4th number represent the value of $_6C_3$.   (n=6, r=3)