

## How to get value of $11^5$ from Pascal Triangle

by Piyush Goel - Monday, December 30, 2013

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Blaise Pascal (19 June 1623 – 19 August 1662) was a French mathematician, physicist, inventor, writer and Christian philosopher. Pascal Triangle is really a great work by Pascal & open many options for scholars in mathematics. Pascal's triangle is a triangular array of the binomial coefficients. It is based on  $x$ ,  $(a + x)$ ,  $(a + x)^2$ ,  $(a + x)^3$  & soon.....

Put coefficient of  $x$ ,  $(a + x)$ ,  $(a^2 + 2ax + x^2)$ ,  $(a^3 + 3a^2x + 3ax^2 + x^3)$  as (1),(1,1),(1,2,1),(1,3,3,1) & soon..

Onwards from here, many scholars worked out to put their own theories, so here is my work on Pascal Triangle.

If we sum up the rows, we get a GP series i.e. 1, 2, 4, 8, 16, 32, 64,.....

Now, it's a very interesting for all of us to get  $11^5$  after  $11^4$  as  $11^4 = 14641$  but for  $11^5$ , the value becomes 161051 which is absent in Pascal triangle practically.

So, I get a solution. Let's see this,

How to get value of  $11^5$  from Pascal Triangle (1 5 10 10 5 1)

100000

1.Put 5 zeroes before 1.

50000

[5 10 10 5 1]

10000

2.Put 5 with four zeroes.

1000

[10 10 5 1]

50

3.Put 10 with three zeroes.

1

[10 5 1]

4.Put 10 with two zeroes.

[5 1]

5. Put 5 with one zero.

[1]

6. At last, 1 without zero.

1 6 1 0 5 1

Exact value of  $11^5$  from Pascal Triangle

[ad#ad-2]

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