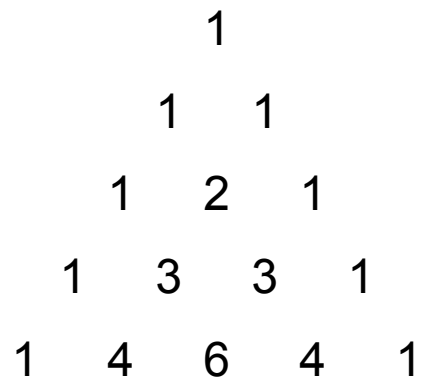


**The Super, Amazing, Magnificent
Pascal's Triangle (Again)**



1. Using patterns in the triangle above, add 4 more rows.
2. At this point, I am sure you are asking....What does this have to do with anything I am learning???...Well, find the solutions to the combinations below and then compare your answers to the triangle to see!!!!

4C_0

4C_1

4C_2

4C_3

4C_4

3. How can Pascal's triangle help us with combinations?

Find the following. You may use our old strategy OR Pascal's triangle.

4. ${}_5C_2$

5. ${}_3C_1$

6. ${}_4C_3$

7. ${}_2C_2$

8. ${}_6C_2$

9. ${}_6C_4$

10. ${}_7C_3$

11. ${}_6C_6$

12. ${}_6C_1$

13. Now draw row 0 through row 5 of the triangle WITHOUT looking at the front of this page. Can you do it?

14. Add up each row and write the sum near the right hand column of the page. Do you notice any patterns in the sums?