

The teacher will need to see all of your work. Check (x) off each one as you use it. Be sure to include the following:

- Pictures, charts, graphs, or t-tables that support your explanation
- A written explanation with detailed sentences
- The equation or number sentence
- The answer (Ask yourself: Is my answer reasonable? Why or why not?)
- The solution in more than one way or related to other situations

Teacher Use Only

Analytical Score:

Understanding N A P E

Strategy/Reasoning N A P E

Communication N A P E

Holistic Score N A P E

Name: _____ Grade: _____ Date: _____

Teacher: _____ School: _____

pascal's triangle

Pascal's Triangle is a very special pattern. It is used in predicting how many ways heads will turn up in 20 tosses and how to short-cut some kinds of multiplication in algebra.

The triangle is named after a famous mathematician, but there is historical evidence that the Chinese used this array of number at least 300 years before Blaise Pascal was even born!

Look carefully at the numbers and try to discover the hidden pattern. Once you've discovered the pattern, complete the triangle's pattern to row 10.

Use mathematical language to fully explain the pattern and how you discovered it!

