

# Egyptian Multiplication

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## Abstract

One of the first uses of applied mathematics, aside from counting, comes from Egyptians. It is thought that Egyptians developed a base-10 counting system as early as 2700 BC. However, the Egyptians did not have a concept of zero in their number system. They also had no concept of place value, so large numbers were rather awkward. This presentation focuses on how the Egyptians found a way to multiply these sometimes rather awkward numbers.

# Pascals Triangle and its Relationship to Everything

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## Abstract

Pascals Triangle is a huge topic in the study of Combinatorics, since it relates to everything well, not really but it definitely has its connections in Combinatorics. Generation of Pascals Triangle will be discussed using two different methods, along with patterns and sequences within the Triangle. Furthermore, the relationship between the Triangular Numbers and perfect squares will be covered.