

Discrete Structures - Assign 2

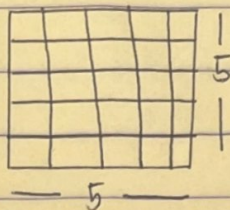
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• SQUARE NUMBERS

Perfect square is nothing but an integer that's the square of an integer; in other words, it's the product of some number with itself.

$$5^2 = 25$$

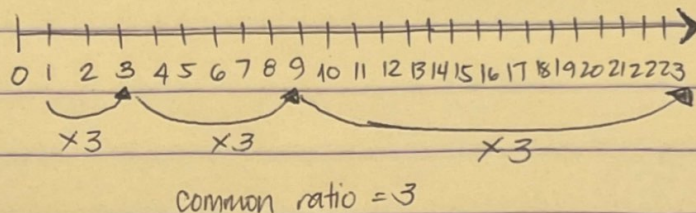
$$5 \times 5 = 25$$



• GEOMETRIC SEQUENCE

This is made by multiplying by the same value each time. What we multiply each time is called "common ratio."

$$1, 3, 9, 27, 81, 243, \dots$$



• PASCAL'S TRIANGLE

A triangular arrangement of numbers that gives coefficients in the expansion of any binomial expression. The numbers are arranged so they reflect a triangle. Firstly, 1 is placed at the top, and then we start putting the numbers in a triangular pattern.

