

Squares and Square Roots

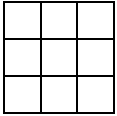
Certain numbers can be arranged into squares, equal numbers of rows and columns.



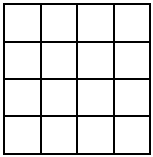
1 square and each side measures 1 unit



4 squares and each side measures 2 units



9 squares and each side measures 3 units



16 squares and each side measures 4 units

The numbers 1, 4, 9, 16, etc. are named ***square numbers*** or ***perfect squares***. We determine the size of the square because of its side length. So the “Square Root” is the length of the side of the square.

So, $\sqrt{1} = 1$, $\sqrt{4} = 2$, $\sqrt{9} = 3$, $\sqrt{16} = 4$