

Answers Growing by Powers of Ten Chart

Expanded form is a way of writing numbers to see the math value of individual digits.

$$10 \times 10 \times 10 \quad \text{or} \quad 100 + 20 + 3$$

Standard form is the total value of the numbers (not in expanded form).

$$1,000 \quad \text{or} \quad 123$$

Place value is the number value a digit has based on its position in a number.

Place Value Chart								
Millions			Thousands			Ones		
Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Directions: Complete the chart with the missing information.

Row	Powers of 10	Expanded Form $n^S = 1 \times n \times \dots \times n$ (where n is repeated S number of times)	Standard Form	Place Value
1	10^0	1	1	Ones
2	10^1	10	10	Tens
3	10^2	10 x 10	100	Hundreds
4	10^3	10 x 10 x 10	1000	Thousands
5	10^4	10 x 10 x 10 x 10	10000	Ten Thousands
6	10^5	10 x 10 x 10 x 10 x 10	100000	Hundred Thousands
7	10^6	10 x 10 x 10 x 10 x 10 x 10	1000000	Millions
8	10^7	10 x 10 x 10 x 10 x 10 x 10 x 10	10000000	Ten Millions
9	10^8	10 x 10 x 10 x 10 x 10 x 10 x 10 x 10	100000000	Hundred Millions