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ENGINEERING NOTATION



WHAT IS SCIENTIFIC NOTATION?

 "Scientific Notation" or "Standard Form" is a way of writing numbers in a compact form.

A number written in Scientific Notation is expressed as a number from 1 to less than 10 multiplied by a power of 10

$$A \times 10^{b}$$



SCIENTIFIC AND ENGINEERING NOTATION

 In Scientific notation you want to have one significant Digit before the decimal point.

4869 4869. Implied decimal point **4869. 4.869 x 10³**

2700000.00 2700000.00 2700000.00 2.70 x 10⁶



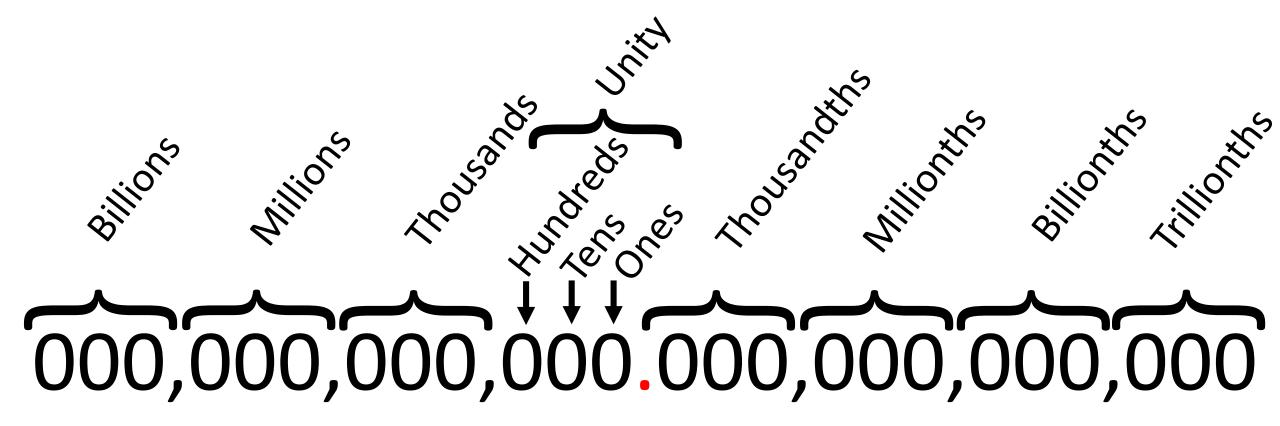
SCIENTIFIC AND ENGINEERING NOTATION

.00548 .00548 5.48 x 10⁻³

.00000527 .0000527 5.27 x 10⁻⁶



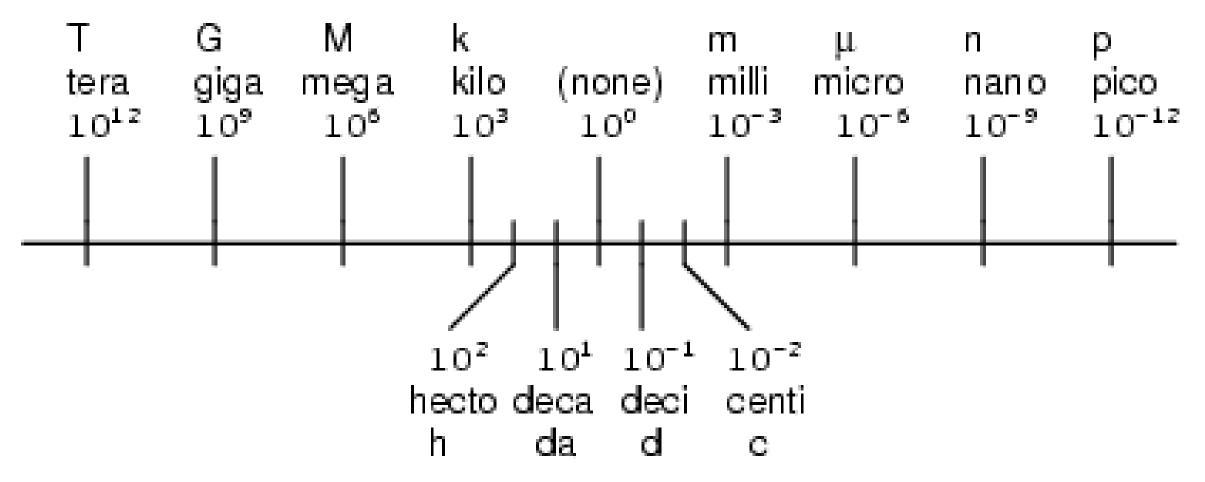
SCIENTIFIC NOTATION





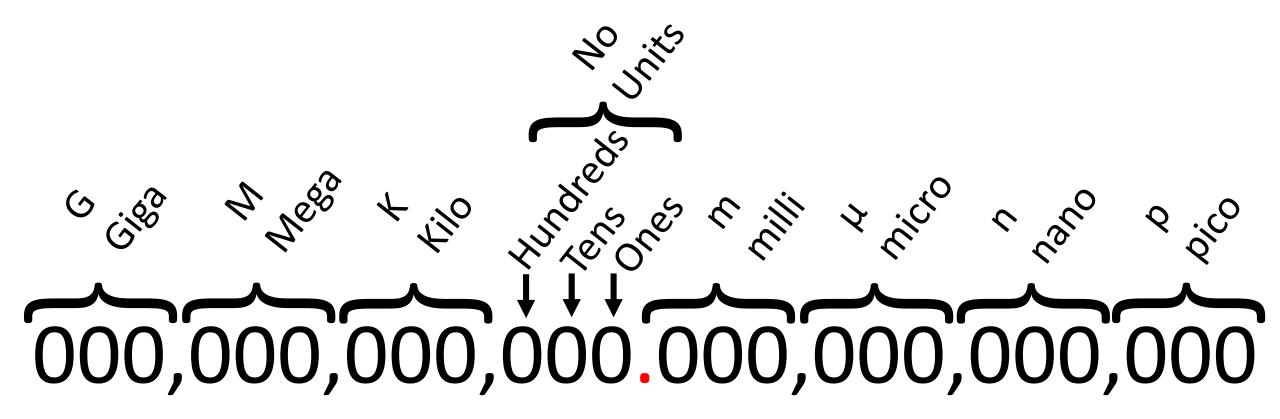
METRIC NOTATION

METRIC PREFIX SCALE



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METRIC NOTATION





SCIENTIFIC AND ENGINEERING NOTATION WITH A ELECTRICAL TWIST...

 Solve for Scientific notation, but to the nearest unit divisible by 3

4869 Ω

4869 4869 4869 4869 4869 4.869 x 10³ 4.869 KΩ



SCIENTIFIC AND ENGINEERING NOTATION WITH A ELECTRICAL TWIST...

 Solve for Scientific notation, but to the nearest unit divisible by 3

2700000.00

2700000.00 2700000.00 270000.00 2.70 x 10⁶ 2.70 M



LET'S TRY SOME...

- 456,000,000
- 0.00675
- 30,900
- 0.00712
- 1,340,000,000
- 0.000000236



LET'S TRY SOME... 456,000,000 456000000.

456M? 456MΩ

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LET'S TRY SOME...

0.00675

0.00675

6.75m m? 6.75mA





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LAB TIME...



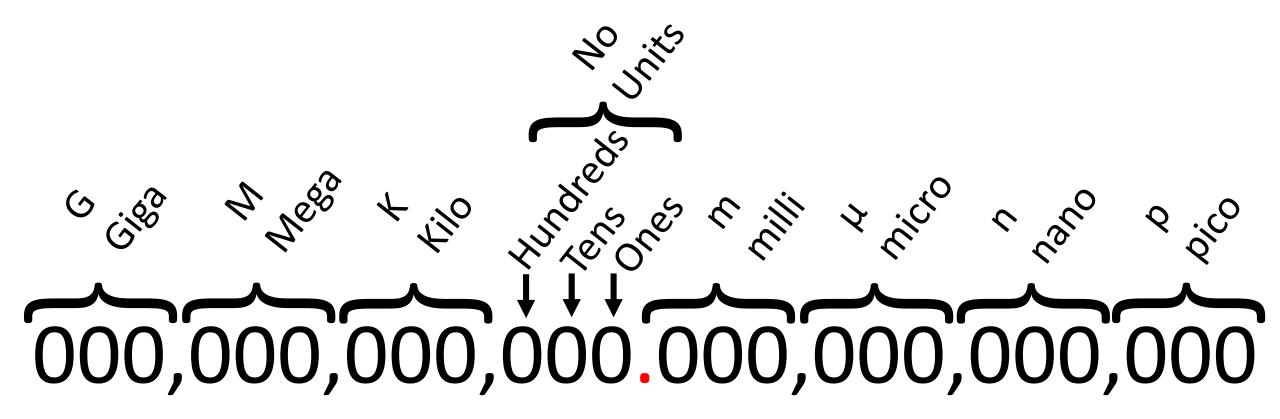
245800000

.000000456

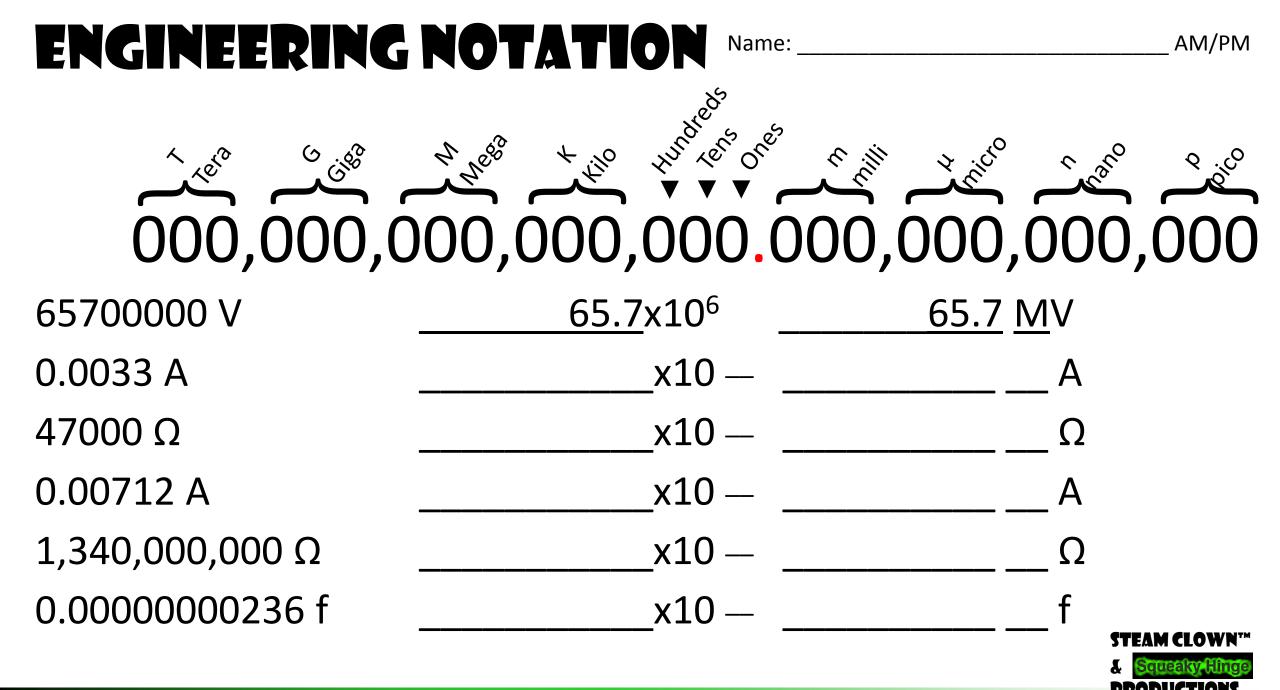
Jim Burnham



METRIC NOTATION







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REFERENCE



SOURCES

- <u>https://www.allaboutcircuits.com/textbook/direct-</u> <u>current/chpt-4/metric-notation/</u>
- <u>https://www.youtube.com/watch?v=7iGAa0BVS9I</u>
- <u>https://www.youtube.com/watch?v=AKRty0d9XnM</u>
- <u>https://www.youtube.com/watch?v=4-GhZD4F0xl</u>
- <u>https://www.youtube.com/watch?v=RFrdAGMnDYw</u>
- <u>https://www.youtube.com/watch?v=9GbCrC7OiVw</u>

