

Note Taking Guide - Episode 102, Part 1

In scientific notation, numbers are expressed in this form:

$$M \times 10^n \quad \text{where } M = \underline{\hspace{2cm}} \quad \text{and } n = \underline{\hspace{2cm}}$$

How to Take Numbers Out of Scientific Notation:

$$10^3 \text{ means } \underline{\hspace{2cm}}$$

$$10^{-3} \text{ means } \underline{\hspace{2cm}}$$

$$6.2 \times 10^4 \text{ means (multiply, divide) } 6.2 \text{ by } 10 \text{ } \underline{\hspace{1cm}} \text{ times.} \quad 6.2 \times 10^4 = \underline{\hspace{2cm}}$$

$$1.5 \times 10^{-2} \text{ means (multiply, divide) } 1.5 \text{ by } 10 \text{ } \underline{\hspace{1cm}} \text{ times.} \quad 1.5 \times 10^{-2} = \underline{\hspace{2cm}}$$

Video Problem Set #1:

a.

b.

c.

d.

e.

How to Put Numbers into Scientific Notation:

$$8500 = \underline{\hspace{2cm}} \quad 0.000303 = \underline{\hspace{2cm}}$$

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Video Problem Set #2:

a.

b.

c.

d.

e.

Calculator Help:

Notes -

$$2 \times 10^3 \times 4 = \underline{\hspace{2cm}}$$

$$\frac{8.4 \times 10^{-12}}{2.8 \times 10^9} = \underline{\hspace{2cm}}$$