

L28: Scientific Notation

Coefficient \times power of 10

↳ one non-zero digit to left of decimal

i.e. \rightarrow 3.75

4.01

5

↳ 10^2
 10^4
 10^{10} etc.

$$10^2 = 100$$

$$10^3 = 1000$$

$$10^4 = 10,000$$

$$10^5 = 100,000$$

$$10^6 = 1,000,000$$

$$10^7 = 10,000,000$$

97,000,000

$$9.7 \times 10^7$$

25,000,000,000

1.25 $\times 10^{11}$

1,438,002,000

$$[.438002 \times 10^9]$$

$$3.14 \times 10^{12}$$

3,140,000,000,000

$$8 \times 10^1 = 80$$

$$4 \times 10^0 = 4$$

L28: #1, 3, 7-12, 14, 16-18, 26-28, 30