

Scientific Notation

$$10 \times 10 = 100 = 10^2 = 1 \times 10^2$$

← • Exp ↑

• → Exp ↓

$$10 \times 10^2$$

$$1 \times 10^3$$

Add / Subtract

$$\begin{array}{r} 5 \times 10^4 \\ + 60 \times 10^4 \end{array}$$

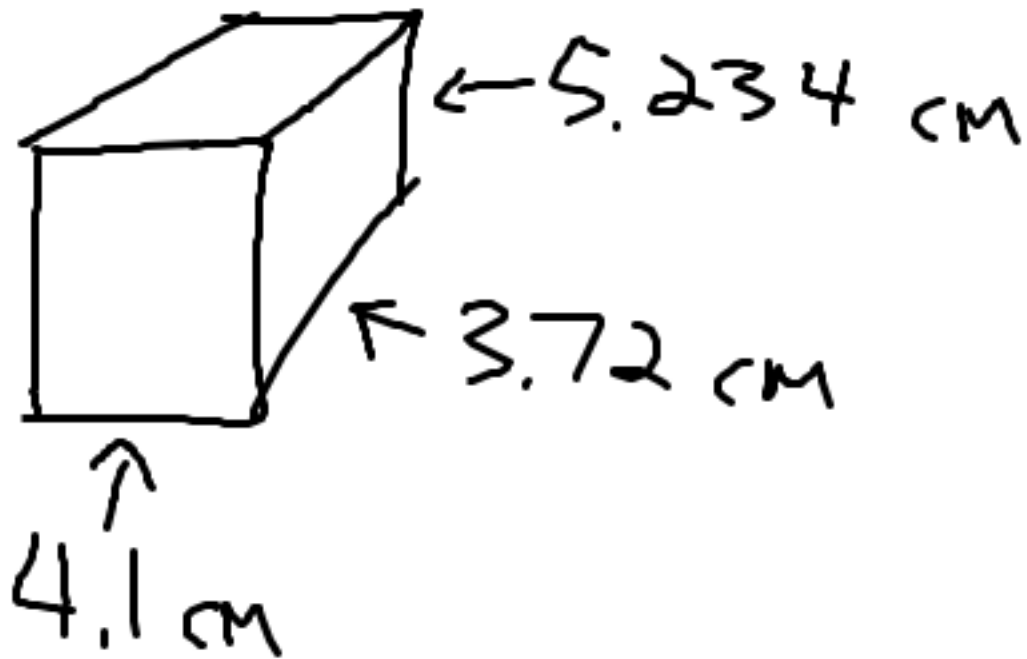
$$\begin{array}{r} \hline 65 \times 10^4 \\ 6.5 \times 10^5 \end{array}$$

$$1 \times 10^3 \times 1 \times 10^4 = 1 \times 10^7$$

$$\frac{1 \times 10^3}{1 \times 10^4} = 1 \times 10^{3-4} = 1 \times 10^{-1} = 0.1 \times 10^0$$

$$\left(1 \times 10^3\right)^4 = 1 \times 10^{12}$$
$$\left(1 \times 10^4\right)^{\frac{1}{2}} = 1 \times 10^2$$

Significant Digits



$$\text{Vol} = 79.828968 \text{ cm}^3$$

$80. \text{cm}^3$

.0000209 2.09×10^{-5}

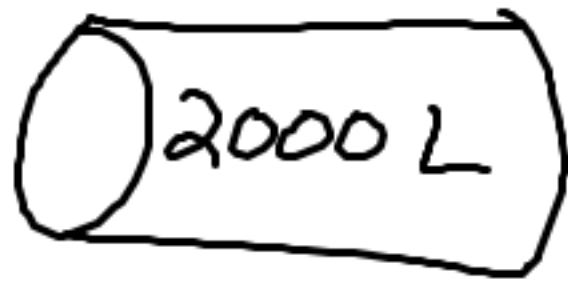
2 10. 100. 1000.

2.0 10 100 1000

2.000 $1,000 \times 10^3$

1.00056 1×10^3

Unit Analysis



How many
55 gallon
Drums

$$2000 \cancel{L} \times \frac{\text{Gal}}{3.785} \cdot 264 = 528 \text{ gal}$$

$$\frac{528 \text{ gal}}{55 \frac{\text{gal}}{\text{drum}}} = \cancel{L} \text{ Drums} \quad 9.6 \text{ Drums}$$

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