

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} \frac{2.5 \times 10^6}{0.5 \times 10^3} &= \frac{2.5}{0.5} \times 10^6 \times 10^{-3} \\ &= \mathbf{5 \times 10^3} \end{aligned}$$

Example 2

$$\begin{aligned} &(3.5 \times 10^4) (0.4 \times 10^{-7}) \\ (3.5 \times 10^4) (0.4 \times 10^{-7}) &= 1.4 \times 10^4 \times 10^{-7} \\ &= \mathbf{1.4 \times 10^{-3}} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $\frac{8.14 \times 10^2}{2 \times 10^4}$

4×10^5

3) $\frac{0.24 \times 10^5}{0.5 \times 10^{-7}}$

0.9×10^{-4}

5) $(3.7 \times 10^{-2}) (6.4$

7) $\frac{2.78 \times 10^{-3}}{0.8 \times 10^{-2}}$

8) $(0.2 \times 10^1) (7.2 \times 10^5)$

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