

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$(4 \times 10^7) (6 \times 10^3)$$

$$\begin{aligned} (4 \times 10^7) (6 \times 10^3) &= 24 \times 10^7 \times 10^3 \\ &= 24 \times 10^{10} \\ &= \mathbf{2.4 \times 10^{11}} \end{aligned}$$

Example 2

$$\begin{aligned} \frac{18 \times 10^3}{10 \times 10^{-1}} &= \frac{18}{10} \times 10^3 \times 10^1 \\ &= \mathbf{1.8 \times 10^4} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $(2 \times 10^{-6}) (4 \times 10^3)$

3) $\frac{16 \times 10^{-9}}{5 \times 10^6}$

5) $(11 \times 10^2) (7 \times 10^3)$

7) $(6 \times 10^6) (6 \times 10^2)$

8) $\frac{11 \times 10^1}{8 \times 10^5}$

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