

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} \frac{7.2 \times 10^5}{0.3 \times 10^{-8}} &= \frac{7.2}{0.3} \times 10^5 \times 10^8 \\ &= 24 \times 10^{13} \\ &= \mathbf{2.4 \times 10^{14}} \end{aligned}$$

Example 2

$$\begin{aligned} &(1.32 \times 10^{-9}) (0.4 \times 10^7) \\ (1.32 \times 10^{-9}) (0.4 \times 10^7) &= 0.528 \times 10^{-9} \times 10^7 \\ &= \mathbf{5.28 \times 10^{-3}} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $\frac{9.85 \times 10^4}{1.25 \times 10^2}$

(0.5×10^5)

3) $(0.5 \times 10^3) (0.3$

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5) $\frac{0.216 \times 10^{-5}}{0.2 \times 10^{-4}}$

$(.94 \times 10^{-8})$

7) $(3.12 \times 10^{-3}) (0.1 \times 10^6)$

8) $\frac{1.17 \times 10^{-8}}{0.9 \times 10^7}$

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