

Scientific Notation

Mul/Div: MS2

Simplify and express in scientific notation:

Example 1

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

$$= \mathbf{3.125 \times 10^2}$$

Example 2

$$(7 \times 10^8) (9 \times 10^4)$$

$$(7 \times 10^8) (9 \times 10^4) = 63 \times 10^8 \times 10^4$$

$$= 63 \times 10^{12}$$

$$= \mathbf{6.3 \times 10^{13}}$$

Simplify each problem and express the answer in scientific notation.

1) $\frac{21 \times 10^{-7}}{4 \times 10^2}$

3) $(2 \times 10^6) (5 \times 10^3)$

5) $\frac{9 \times 10^3}{4 \times 10^{-5}}$

7) $(4 \times 10^1) (13 \times 10^5)$

8) $\frac{27 \times 10^4}{10 \times 10^8}$

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