

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\frac{6 \times 10^6}{8 \times 10^4} = \frac{6}{4} \times 10^6 \times 10^{-4}$$

$$= 7.5 \times 10^1$$

Example 2

$$(8 \times 10^5) (6 \times 10^3)$$

$$(8 \times 10^5) (6 \times 10^3) = 48 \times 10^5 \times 10^3$$

$$= 48 \times 10^8$$

$$= 4.8 \times 10^9$$

Simplify each problem and express the answer in scientific notation.

1) $\frac{5 \times 10^7}{4 \times 10^4}$

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

5) $\frac{17 \times 10^8}{4 \times 10^5}$

7) $(2 \times 10^4) (7 \times 10^6)$

8) $\frac{20 \times 10^9}{1 \times 10^7}$

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