

**Scientific Notation**

Simplify and express in scientific notation:

Example 1

$$(5 \times 10^6) (7 \times 10^9)$$

$$(5 \times 10^6) (7 \times 10^9) = 35 \times 10^6 \times 10^9$$

$$= 35 \times 10^{15}$$

$$= \mathbf{3.5 \times 10^{16}}$$

Example 2

$$\frac{9 \times 10^8}{8 \times 10^{-2}} = \frac{9}{8} \times 10^8 \times 10^2$$

$$= \mathbf{1.125 \times 10^{10}}$$

Simplify each problem and express the answer in scientific notation.

1)  $(2 \times 10^7) (9 \times 10^9)$   
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3)  $\frac{15 \times 10^{-7}}{16 \times 10^{-5}}$   
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5)  $(8 \times 10^{-7}) (3 \times 10^5)$   
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7)  $\frac{4 \times 10^8}{1 \times 10^4}$   
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8)  $(4 \times 10^3) (4 \times 10^7)$   
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