

# Scientific Notation

Simplify and express in scientific notation:

### Example 1

$$(5.2 \times 10^4)(4.7 \times 10^6)$$

$$(5.2 \times 10^4)(4.7 \times 10^6) = 24.44 \times 10^4 \times 10^6$$

$$= \mathbf{2.444 \times 10^{11}}$$

### Example 2

$$\frac{3.45 \times 10^{-3}}{0.25 \times 10^{-7}} = \frac{3.45}{0.25} \times 10^{-3} \times 10^7$$

$$= 13.8 \times 10^4$$

$$= \mathbf{1.38 \times 10^5}$$

Simplify each problem and express the answer in scientific notation.

1)  $(0.82 \times 10^2)(0.2 \times 10^3)$

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3)  $\frac{0.7 \times 10^{-2}}{0.1 \times 10^7}$

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5)  $(6.9 \times 10^{-3})(0.5 \times 10^4)$

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7)  $\frac{7.8 \times 10^5}{1.3 \times 10^2}$

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8)  $(0.4 \times 10^7)(0.1 \times 10^3)$

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