

## Scientific Notation

Simplify and express in scientific notation:

### Example 1

$$\begin{aligned} & (2 \times 10^4) + (3 \times 10^5) \\ &= (2 \times 10^4) + (3 \times 10^4) \times 10 \\ &= (2 \times 10^4) + (30 \times 10^4) \\ &= 32 \times 10^4 \\ &= \mathbf{3.2 \times 10^5} \end{aligned}$$

### Example 2

$$\begin{aligned} & (7 \times 10^8) - (4 \times 10^6) \\ &= (7 \times 10^6) \times 10^2 - (4 \times 10^6) \\ &= (700 \times 10^6) - (4 \times 10^6) \\ &= 696 \times 10^6 \\ &= \mathbf{6.96 \times 10^8} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1)  $(2 \times 10^3) + (5 \times \quad \times 10^7)$

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3)  $(8 \times 10^9) - (3 \times \quad \times 10^6)$

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5)  $(4 \times 10^2) + (7 \times \quad \times 10^4)$

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7)  $(1 \times 10^6) - (8 \times 10^4)$

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8)  $(5 \times 10^9) + (3 \times 10^8)$

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