

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} & (8 \times 10^2) + (4 \times 10^5) \\ &= (8 \times 10^2) + (4 \times 10^2) \times 10^3 \\ &= (8 \times 10^2) + (4000 \times 10^2) \\ &= 4008 \times 10^2 \\ &= \mathbf{4.008 \times 10^5} \end{aligned}$$

Example 2

$$\begin{aligned} & (6 \times 10^7) - (2 \times 10^6) \\ &= (6 \times 10^6) \times 10 - (2 \times 10^6) \\ &= (60 \times 10^6) - (2 \times 10^6) \\ &= 58 \times 10^6 \\ &= \mathbf{5.8 \times 10^7} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $(3 \times 10^8) + (5 \times \quad) \times 10^2$

3) $(6 \times 10^6) - (5 \times \quad) \times 10^4$

5) $(3 \times 10^9) + (7 \times \quad) \times 10^6$

7) $(4 \times 10^6) - (2 \times 10^5)$

8) $(6 \times 10^9) + (4 \times 10^8)$

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