

Name : _____

Score : _____

Scientific Notation

Add/Sub: MS1

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} & (6 \times 10^2) + (5 \times 10^5) \\ &= (6 \times 10^2) + (5 \times 10^2) \times 10^3 \\ &= (6 \times 10^2) + (5000 \times 10^2) \\ &= 5006 \times 10^2 \\ &= \mathbf{5.006 \times 10^5} \end{aligned}$$

Example 2

$$\begin{aligned} & (3 \times 10^{-3}) - (2 \times 10^{-6}) \\ &= (3 \times 10^{-6}) \times 10^3 - (2 \times 10^{-6}) \\ &= (3000 \times 10^{-6}) - (2 \times 10^{-6}) \\ &= 2998 \times 10^{-6} \\ &= \mathbf{2.998 \times 10^{-3}} \end{aligned}$$

Simplify each problem.

1) $(3 \times 10^{-2}) - (6 \times 10^{-1})$

Answer : _____

3) $(7 \times 10^7) + (4 \times 10^8)$

Answer : _____

5) $(5 \times 10^6) - (8 \times 10^4)$

Answer : _____

7) $(3 \times 10^{-9}) + (5 \times 10^{-5})$

Answer : _____

8) $(2 \times 10^8) - (4 \times 10^5)$

Answer : _____

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Example 1

$$\begin{aligned} & (6 \times 10^2) + (5 \times 10^5) \\ &= (6 \times 10^2) + (5 \times 10^2) \times 10^3 \\ &= (6 \times 10^2) + (5000 \times 10^2) \\ &= 5006 \times 10^2 \\ &= \mathbf{5.006 \times 10^5} \end{aligned}$$

Example 2

$$\begin{aligned} & (3 \times 10^{-3}) - (2 \times 10^{-6}) \\ &= (3 \times 10^{-6}) \times 10^3 - (2 \times 10^{-6}) \\ &= (3000 \times 10^{-6}) - (2 \times 10^{-6}) \\ &= 2998 \times 10^{-6} \\ &= \mathbf{2.998 \times 10^{-3}} \end{aligned}$$

Simplify each problem.

1) $(3 \times 10^{-2}) - (6 \times 10^{-1})$

Answer :

3) $(7 \times 10^7) + (4 \times 10^8)$

Answer :

5) $(5 \times 10^6) - (8 \times 10^4)$

Answer : $\mathbf{4.992 \times 10^6}$

7) $(3 \times 10^{-9}) + (5 \times 10^{-5})$

Answer : $\mathbf{5.0003 \times 10^{-5}}$

Simplify each problem.

2) $(3 \times 10^{-3}) - (2 \times 10^{-6})$

Answer : $\mathbf{2.998 \times 10^{-3}}$

4) $(7 \times 10^7) + (4 \times 10^8)$

Answer : $\mathbf{8.94 \times 10^{-5}}$

6) $(5 \times 10^6) - (8 \times 10^4)$

Answer : $\mathbf{7.006 \times 10^{-4}}$

8) $(2 \times 10^8) - (4 \times 10^5)$

Answer : $\mathbf{1.996 \times 10^8}$

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