

Scientific Notation

Add/Sub: ES3

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.

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

Answer : _____

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

Answer : _____

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

Answer : _____

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

Answer : _____

Simplify each problem.

2) $(8 \times 10^2) + (2 \times 10^2)$

4) $(9 \times 10^4) - (3 \times 10^4)$

6) $(1 \times 10^6) + (9 \times 10^6)$

Answer : _____

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

Answer : _____

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com

Scientific Notation

Add/Sub: ES3

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.

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

Answer : _____

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

Answer : _____

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

Answer : $\mathbf{3.07 \times 10^9}$

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

Answer : $\mathbf{3.8 \times 10^6}$

Simplify each problem.

2) $(8 \times 10^4) + (1 \times 10^5)$

Answer : $\mathbf{8.93 \times 10^4}$

4) $(2 \times 10^5) + (6 \times 10^4)$

Answer : $\mathbf{2.8 \times 10^5}$

6) $(9 \times 10^8) + (1 \times 10^9)$

Answer : $\mathbf{4.9 \times 10^8}$

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

Answer : $\mathbf{6.4 \times 10^9}$

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com