

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} &(7 \times 10^{-8}) + (5 \times 10^{-5}) \\ &= (7 \times 10^{-8}) + (5 \times 10^{-8}) \times 10^3 \\ &= (7 \times 10^{-8}) + (5000 \times 10^{-8}) \\ &= 5007 \times 10^{-8} \\ &= \mathbf{5.007 \times 10^{-5}} \end{aligned}$$

Example 2

$$\begin{aligned} &(6 \times 10^4) - (9 \times 10^2) \\ &= (6 \times 10^2) \times 10^2 - (9 \times 10^2) \\ &= (600 \times 10^2) - (9 \times 10^2) \\ &= 591 \times 10^2 \\ &= \mathbf{5.91 \times 10^4} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $(9 \times 10^{-8}) + (3 \times 10^{-1})$

3) $(7 \times 10^{-2}) - (8 \times 10^8)$

5) $(5 \times 10^{-5}) + (4 \times 10^2)$

7) $(7 \times 10^9) - (6 \times 10^5)$

8) $(4 \times 10^{-1}) + (9 \times 10^3)$

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