

Scientific Notation

Mul/Div: ES3

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} \frac{15 \times 10^6}{8 \times 10^3} &= \frac{15}{8} \times 10^6 \times 10^{-3} \\ &= 1.875 \times 10^3 \\ &= \mathbf{1.875 \times 10^3} \end{aligned}$$

Example 2

$$\begin{aligned} (7 \times 10^6) (5 \times 10^7) \\ (7 \times 10^6) (5 \times 10^7) &= 35 \times 10^6 \times 10^7 \\ &= 35 \times 10^{13} \\ &= \mathbf{3.5 \times 10^{14}} \end{aligned}$$

Simplify each problem.

1) $\frac{13 \times 10^8}{5 \times 10^6}$

Answer : _____

3) $(6 \times 10^2) (3 \times 10^3)$

Answer : _____

5) $\frac{13 \times 10^9}{4 \times 10^7}$

Answer : _____

7) $\frac{30 \times 10^5}{6 \times 10^4}$

Answer : _____

8) $(8 \times 10^7) (2 \times 10^5)$

Answer : _____

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Simplify each problem.

1) $\frac{13 \times 10^8}{5 \times 10^6}$

Answer : _____

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www.mathworksheets4kids.com $\mathbf{4.5 \times 10^{18}}$

3) $(6 \times 10^2) (3 \times 10^2)$

Answer : _____

 $\mathbf{4 \times 10^2}$

5) $\frac{13 \times 10^9}{4 \times 10^7}$

Answer : $\mathbf{3.25 \times 10^2}$ Answer : $\mathbf{7.2 \times 10^{12}}$

7) $\frac{30 \times 10^5}{6 \times 10^4}$

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

8) $(8 \times 10^7) (2 \times 10^5)$

Answer : $\mathbf{1.6 \times 10^{13}}$