

Scientific Notation

Mul/Div: DS1

Simplify and express in scientific notation:

Example 1

$$\frac{2.5 \times 10^6}{0.5 \times 10^3} = \frac{2.5}{0.5} \times 10^6 \times 10^{-3}$$

$$= 5 \times 10^3$$

Example 2

$$(3.5 \times 10^4) (0.4 \times 10^{-7})$$

$$(3.5 \times 10^4) (0.4 \times 10^{-7}) = 1.4 \times 10^4 \times 10^{-7}$$

$$= 1.4 \times 10^{-3}$$

Simplify each problem.

1) $\frac{8.14 \times 10^2}{2 \times 10^4}$

Answer : _____

3) $\frac{0.24 \times 10^5}{0.5 \times 10^{-7}}$

Answer : _____

5) $(3.7 \times 10^{-2}) (6.4 \times 10^5)$

Answer : _____

7) $\frac{2.78 \times 10^{-3}}{0.8 \times 10^{-2}}$

Answer : _____

8) $(0.2 \times 10) (7.2 \times 10^5)$

Answer : _____

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Simplify and express in scientific notation:

Example 1

$$\frac{2.5 \times 10^6}{0.5 \times 10^3} = \frac{2.5}{0.5} \times 10^6 \times 10^{-3}$$

$$= \mathbf{5 \times 10^3}$$

Example 2

$$(3.5 \times 10^4) (0.4 \times 10^{-7})$$

$$(3.5 \times 10^4) (0.4 \times 10^{-7}) = 1.4 \times 10^4 \times 10^{-7}$$

$$= \mathbf{1.4 \times 10^{-3}}$$

Simplify each problem.

1) $\frac{8.14 \times 10^2}{2 \times 10^4}$

Answer : _____

tion.

10⁵)**8.4 × 10⁷**

3) $\frac{0.24 \times 10^5}{0.5 \times 10^{-7}}$

Answer : _____

× 10⁻⁴)**3.618 × 10³**

5) $(3.7 \times 10^{-2}) (6.4$

Answer : **2.368 × 10⁻⁷**Answer : **8.5 × 10¹⁵**

7) $\frac{2.78 \times 10^{-3}}{0.8 \times 10^{-2}}$

Answer : **3.475 × 10⁻¹**

8) $(0.2 \times 10) (7.2 \times 10^5)$

Answer : **1.44 × 10⁶****PREVIEW**

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