

Scientific Notation

Mul/Div: ES2

Simplify and express in scientific notation:

Example 1

$$\frac{6 \times 10^6}{8 \times 10^4} = \frac{6}{8} \times 10^6 \times 10^{-4}$$

$$= \mathbf{7.5 \times 10}$$

Example 2

$$(8 \times 10^5) (6 \times 10^3)$$

$$(8 \times 10^5) (6 \times 10^3) = 48 \times 10^5 \times 10^3$$

$$= 48 \times 10^8$$

$$= \mathbf{4.8 \times 10^9}$$

Simplify each problem.

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

Answer : _____

3) $(3 \times 10^3) (2 \times 10^4)$

Answer : _____

5) $\frac{17 \times 10^8}{4 \times 10^5}$

Answer : _____

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

Answer : _____

8) $\frac{20 \times 10^9}{1 \times 10^7}$

Answer : _____

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Simplify each problem.

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

Answer : _____

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

Answer : _____

5) $\frac{17 \times 10^8}{4 \times 10^5}$

Answer : **4.25 × 10³**

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

Answer : **1.4 × 10¹¹**

8) $\frac{20 \times 10^9}{1 \times 10^7}$

Answer : **2 × 10³** **PREVIEW**

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www.mathworksheets4kids.com8) _____ **2.4 × 10¹⁵** __________ **1.875 × 10²** _____