

Name : _____

Score : _____

Scientific Notation

Mul/Div: MS3

Simplify and express in scientific notation:

Example 1

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

$$\begin{aligned} (6 \times 10^8) (9 \times 10^4) &= 54 \times 10^8 \times 10^4 \\ &= 54 \times 10^{12} \\ &= \mathbf{5.4 \times 10^{13}} \end{aligned}$$

Example 2

$$\begin{aligned} \frac{15 \times 10^8}{12 \times 10^{-2}} &= \frac{15}{12} \times 10^8 \times 10^2 \\ &= \mathbf{1.25 \times 10^{10}} \end{aligned}$$

Simplify each problem.

1) $(6 \times 10^{-5}) (8 \times 10^4)$

Answer : _____

3) $\frac{15 \times 10^{-6}}{4 \times 10^4}$

Answer : _____

5) $(5 \times 10^3) (15 \times 10^2)$

Answer : _____

7) $(7 \times 10^6) (12 \times 10^2)$

Answer : _____

8) $\frac{15 \times 10^5}{6 \times 10}$

Answer : _____

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Simplify each problem.

1) $(6 \times 10^{-5}) (8 \times 10^4)$

Answer : _____

3) $\frac{15 \times 10^{-6}}{4 \times 10^4}$

Answer : _____

5) $(5 \times 10^3) (15 \times 10^2)$

Answer : **7.5×10^{-5}**

7) $(7 \times 10^6) (12 \times 10^2)$

Answer : **8.4×10^9**

8) $\frac{15 \times 10^5}{6 \times 10}$

Answer : **2.5×10^4**

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 1.25×10^{-4}

 1.8×10^{-8}

Answer : **5.6×10^4**