

Name : \_\_\_\_\_

## 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 and express the answer in scientific notation.

1)  $(6 \times 10^{-5}) (2 \times 10^4)$

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3)  $\frac{15 \times 10^{-6}}{8 \times 10^4}$

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

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

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8)  $\frac{15 \times 10^5}{6 \times 10^1}$

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