

Name: _____

Example 1:

$$\frac{(2 \times 10^{-3})(3 \times 10^7)}{(2 \times 10^{-8})}$$

Example 2:

$$\frac{(6 \times 10^4)(2 \times 10^7)}{(4 \times 10^{10})}$$

Example 3:

$$\frac{(7 \times 10^{-12})(1 \times 10^6)}{(14 \times 10^{-8})}$$

Example 4:

$$\frac{(5 \times 10^{-9})(6 \times 10^7)}{(3 \times 10^5)}$$

Example 1: $\frac{(2 \times 10^{-3})(3 \times 10^7)}{(2 \times 10^{-8})}$

First, we take care of the numerator.

- Multiply the factor 1 numbers: $2 \times 3 =$ _____
- Multiply factor 2 numbers by adding exponents: $10^{-3} \times 10^7 =$ _____
- Combine both factors to get your product: _____

Second, divide your new product by the denominator.

- Your new problem is:

- Divide factor 1 numbers: _____
- Divide factor 2 numbers by subtracting exponents: $10^{(4-(-8))} =$ _____

Last, combine your factors.

- Final answer: _____

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Example 2: $\frac{(6 \times 10^4)(2 \times 10^7)}{(4 \times 10^{10})}$

First, we take care of the numerator.

- Multiply the factor 1 numbers: $6 \times 2 =$ _____
- Multiply factor 2 numbers by adding exponents: $10^4 \times 10^7 =$ _____
- Combine both factors to get your product: _____

Second, divide your new product by the denominator.

- Your new problem is:

- Divide factor 1 numbers: $12 \div 4 =$ _____
- Divide factor 2 numbers by subtracting exponents: $10^{(11-10)} =$ _____

Last, combine your factors.

- Final answer: _____
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Example 3: $\frac{(7 \times 10^{-12})(1 \times 10^6)}{(14 \times 10^{-8})}$

First, we take care of the numerator.

- Multiply the factor 1 numbers: $7 \times 1 =$ _____
- Multiply factor 2 numbers by adding exponents: $10^{-12} \times 10^6 =$ _____
- Combine both factors to get your product: _____

Second, divide your new product by the denominator.

- Your new problem is:

- Divide factor 1 numbers: $7 \div 14 =$ _____
- Divide factor 2 numbers by subtracting exponents: $10^{(-6-(-8))} =$ _____

Last, combine your factors.

- Final answer: _____
 - CORRECT SCIENTIFIC NOTATION ANSWER: _____
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Figure out the 4th problem using the same method above.