

## Guided Practice

Add or subtract. Write your answer in scientific notation. (Explore Activity Example 1)

1.  $4.2 \times 10^6 + 2.25 \times 10^5 + 2.8 \times 10^6$

$$4.2 \times 10^6 + \boxed{\phantom{00}} \times 10^{\boxed{\phantom{00}}} + 2.8 \times 10^6$$

$$4.2 + \boxed{\phantom{00}} + \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \times 10^{\boxed{\phantom{00}}}$$

2.  $8.5 \times 10^3 - 5.3 \times 10^3 - 1.0 \times 10^2$

$$8.5 \times 10^3 - 5.3 \times 10^3 - \boxed{\phantom{00}} \times 10^{\boxed{\phantom{00}}}$$

$$\boxed{\phantom{00}} - \boxed{\phantom{00}} - \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \times 10^{\boxed{\phantom{00}}}$$

3.  $1.25 \times 10^2 + 0.50 \times 10^2 + 3.25 \times 10^2$

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4.  $6.2 \times 10^5 - 2.6 \times 10^4 - 1.9 \times 10^2$

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Multiply or divide. Write your answer in scientific notation. (Example 2)

5.  $(1.8 \times 10^9)(6.7 \times 10^{12})$  \_\_\_\_\_

6.  $\frac{3.46 \times 10^{17}}{2 \times 10^9}$  \_\_\_\_\_

7.  $(5 \times 10^{12})(3.38 \times 10^6)$  \_\_\_\_\_

8.  $\frac{8.4 \times 10^{21}}{4.2 \times 10^{14}}$  \_\_\_\_\_

Write each number using calculator notation. (Example 3)

9.  $3.6 \times 10^{11}$

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10.  $7.25 \times 10^{-5}$

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11.  $8 \times 10^{-1}$

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Write each number using scientific notation. (Example 3)

12. 7.6E-4

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13. 1.2E16

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14. 9E1

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### ESSENTIAL QUESTION CHECK-IN

15. How do you add, subtract, multiply, and divide numbers written in scientific notation?

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