

Name \_\_\_\_\_ Period \_\_\_\_\_ Date: \_\_\_\_\_

### Scientific Notation and Standard Notation

**Convert the following numbers into scientific notation:**

1) -0.0265

7) 392

2) 53000

8) - 0.00361

3) - 3400

9) 0.000023

4) 101000

10) - 0.010

5) - 45.01

11) 1000000

6) 0.00671

12) - 4.50

**Convert the following numbers into standard notation:**

1)  $1.92 \times 10^3$

7)  $-4.29 \times 10^5$

2)  $3.51 \times 10^{-7}$

8)  $-2.23 \times 10^{-4}$

3)  $2.30 \times 10^4$

9)  $1.76 \times 10^{-3}$

4)  $1.901 \times 10^{-2}$

10)  $8.65 \times 10^{-1}$

5)  $9.11 \times 10^3$

11)  $5.40 \times 10^7$

6)  $1.76 \times 10^0$

12)  $7.4 \times 10^{-5}$

Name \_\_\_\_\_ Period \_\_\_\_\_ Date: \_\_\_\_\_

### Operations with Scientific Notation

**Add or Subtract the following numbers that are in scientific notation. Make sure your final answer is in proper scientific notation.**

1)  $5 \times 10^3 + 4.3 \times 10^4 =$

2)  $2.3 \times 10^{-4} - 6 \times 10^{-5} =$

3)  $4 \times 10^5 + 3.3 \times 10^6 =$

4)  $7.2 \times 10^{-2} + 5.3 \times 10^{-1}$

5)  $9.2 \times 10^{10} - 8.4 \times 10^{11}$

**Multiply or Divide the following numbers that are in scientific notation. Make sure your final answer is in proper scientific notation.**

1)  $(3.5 \times 10^5) \times (4 \times 10^3) =$

2)  $(9 \times 10^4) / (3 \times 10^2) =$

3)  $(5 \times 10^6) \times (7 \times 10^8) =$

4)  $(7.5 \times 10^5) / (2.5 \times 10^3) =$

5)  $(4.5 \times 10^3) / (2 \times 10^6) =$