

**MATH HANDBOOK TRANSPARENCY WORKSHEET****2**

# Operations with Scientific Notation

Use with Appendix B,  
Operations with  
Scientific Notation

1. Perform the following operations and express the answers in scientific notation.

a.  $(1.2 \times 10^5) + (5.35 \times 10^6)$

b.  $(6.91 \times 10^{-2}) + (2.4 \times 10^{-3})$

c.  $(9.70 \times 10^6) + (8.3 \times 10^5)$

d.  $(3.67 \times 10^2) - (1.6 \times 10^1)$

e.  $(8.41 \times 10^{-5}) - (7.9 \times 10^{-6})$

f.  $(1.33 \times 10^5) - (4.9 \times 10^4)$

2. Perform the following operations and express the answers in scientific notation.

a.  $(4.3 \times 10^8) \times (2.0 \times 10^6)$

b.  $(6.0 \times 10^3) \times (1.5 \times 10^{-2})$

c.  $(1.5 \times 10^{-2}) \times (8.0 \times 10^{-1})$

d.  $\frac{7.8 \times 10^3}{1.2 \times 10^4}$

e.  $\frac{8.1 \times 10^{-2}}{9.0 \times 10^2}$

f.  $\frac{6.48 \times 10^5}{(2.4 \times 10^4)(1.8 \times 10^{-2})}$

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