

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Write the following in exponential form and as a multiplication sentence using only 10 as a factor (e.g.,  $100 = 10^2 = 10 \times 10$ ).

a. 1,000 =  $10^3$  =  $10 \times 10 \times 10$

b.  $100 \times 100$  =  $10^4$  =  $10 \times 10 \times 10 \times 10$

2. Write the following in standard form (e.g.,  $4 \times 10^2 = 400$ ).

a.  $3 \times 10^2 = 300$   
 $3 \times 100$

c.  $800 \div 10^3 = 0.8$   
 $800 \div 1000$

b.  $2.16 \times 10^4 = 21600$   
 $2.16 \times 10000$

d.  $754.2 \div 10^2 = 7.542$   
 $754.2 \div 100$