

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

### EXPONENTS AND METRIC SYSTEM PRACTICE PROBLEMS

Convert the exponent to a number. Example  $10^{-2} = 0.01$

$10^4 =$  \_\_\_\_\_       $10^{-4} =$  \_\_\_\_\_       $10^{-5} =$  \_\_\_\_\_       $10^6 =$  \_\_\_\_\_       $10^2 =$  \_\_\_\_\_

$10^{-6} =$  \_\_\_\_\_       $10^{-3} =$  \_\_\_\_\_       $10^0 =$  \_\_\_\_\_       $10^2 =$  \_\_\_\_\_       $10^1 =$  \_\_\_\_\_

Convert the number to an exponent. Example  $1,000,000 = 10^6$

$0.01 =$  \_\_\_\_\_       $1,000 =$  \_\_\_\_\_       $0.0001 =$  \_\_\_\_\_       $0.1 =$  \_\_\_\_\_       $100 =$  \_\_\_\_\_

$1 =$  \_\_\_\_\_       $0.00001 =$  \_\_\_\_\_       $1,000,000 =$  \_\_\_\_\_       $10,000 =$  \_\_\_\_\_       $0.001 =$  \_\_\_\_\_

Convert each of the following quantities to the required unit.

12.75 mm to km \_\_\_\_\_      277 cm to m \_\_\_\_\_

300,000 km to Mm \_\_\_\_\_      6.62 km to m \_\_\_\_\_

3857 g to mg \_\_\_\_\_      0.0036 mL to  $\mu$ L \_\_\_\_\_

68.71 kL to L \_\_\_\_\_      23 mL to L \_\_\_\_\_

15 cm to mm \_\_\_\_\_      10 g to kg \_\_\_\_\_