

Name \_\_\_\_\_ Date \_\_\_\_\_

Class \_\_\_\_\_ Period \_\_\_\_\_

**Metric Conversions Practice A**

- Find the correct arrangement of metric prefixes in order of **decreasing** value.  
1) kilo, deci, centi, micro    2) milli, deci, centi, kilo    3) micro, centi, deci, kilo  
4) kilo, micro, deci, milli.
- Two prefixes used for units which are different by a factor of 100 are  
1) deci-milli;                    2) centi -micro;                    3) kilo- milli;                    4) micro- kilo.
- Use scientific notation to change 610 dekagrams to megagrams.  
1)  $6.1 \times 10^{-5}$  Mg                    2)  $6.1 \times 10^{-4}$  Mg                    3)  $6.1 \times 10^{-3}$  Mg                    4)  $6.1 \times 10^7$  Mg
- How many milliliters are there in 73 deciliters?  
1) 0.0073                    2) 0.73                    3) 7,300                    4) 73,000                    5) none of these
- Use scientific notation to convert 210 megagrams to centigrams.  
1)  $2.1 \times 10^{-6}$  cg.                    2)  $2.1 \times 10^{-2}$  cg.                    3)  $2.1 \times 10^6$  cg.                    4)  $2.1 \times 10^{10}$  cg.
- How many hectometers are there in 480 centimeters?  
1) 0.048 hm    2) 0.48 hm    3) 4800 hm    4) 480,000 hm    5) none of these
- The number of millimeters in 0.620 centimeters is  
1) 62.0;                    2) 0.062;                    3) 6.20;                    4) 620;                    5) none of these.
- Use scientific notation to convert 0.0081 micrometers to hectometers.  
1)  $8.1 \times 10^{-13}$  hm                    2)  $8.1 \times 10^{-11}$  hm                    3)  $8.1 \times 10^{-7}$  hm                    4)  $8.1 \times 10^5$  hm
- The number of kilometers in 5,280 decimeters is  
1)  $5.28 \times 10^7$ ;                    2) 528;                    3) 5.28;                    4)  $5.28 \times 10^{-1}$ .
- Convert 0.0105 micrometers to kilometers.  
1)  $1.05 \times 10^7$  km                    2)  $1.05 \times 10^5$  km                    3)  $1.05 \times 10^4$  km                    4)  $1.05 \times 10^{-11}$  km
- The number of centigrams in 0.25 kilogram is  
1)  $2.5 \times 10^{-5}$ ;    2)  $2.5 \times 10^{-2}$ ;    3)  $2.5 \times 10^4$ ;    4)  $2.5 \times 10^6$ ;    5) none of these.
- How many deciliters are there in 348 megaliters?  
1)  $3.48 \times 10^2$  dl                    2)  $3.48 \times 10^6$  dl                    3)  $3.48 \times 10^9$  dl                    4)  $3.48 \times 10^{-5}$  dl
- The correct arrangement of prefixes in order of **increasing** value is  
1) milli, centi, kilo, deci;                    2) micro, milli, centi, kilo;                    3) centi, milli, kilo, deci;  
4) kilo, milli, centi, micro.