Name_____   **Date**_____

Class_____   **Period**_____ _____

<u>**Metric Conversions Practice A**</u>

1. 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.

2. 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.

3. Use scientific notation to change 610 dekagrams to megagrams.
  1) 6.1×10^{-5} Mg   2) 6.1×10^{-4} Mg   3) 6.1×10^{-3} Mg   4) 6.1×10^{7} Mg

4. How many milliliters are there in 73 deciliters?
  1) 0.0073   2) 0.73   3) 7,300   4) 73,000   5) none of these

5. Use scientific notation to convert 210 megagrams to centigrams.
  1) 2.1×10^{-6} cg.   2) 2.1×10^{-2} cg.   3) 2.1×10^{6} cg.   4) 2.1×10^{10} cg.

6. 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

7. The number of millimeters in 0.620 centimeters is
1) 62.0;   2) 0.062;   3) 6.20;   4) 620;   5) none of these.

8. Use scientific notation to convert 0.0081 micrometers to hectometers.
  1) 8.1×10^{-13} hm   2) 8.1×10^{-11} hm   3) 8.1×10^{-7} hm   4) 8.1×10^{5} hm

9. The number of kilometers in 5,280 decimeters is
  1) 5.28×10^{7};   2) 528;   3) 5.28;   4) 5.28×10^{-1}.

10. Convert 0.0105 micrometers to kilometers.
  1) 1.05×10^{7} km   2) 1.05×10^{5} km   3) 1.05×10^{4} km   4) 1.05×10^{-11} km

11. The number of centigrams in 0.25 kilogram is
  1) 2.5×10^{-5};   2) 2.5×10^{-2};   3) 2.5×10^{4};   4) 2.5×10^{6};   5) none of these.

12. How many deciliters are there in 348 megaliters?
  1) 3.48×10^{2} dl   2) 3.48×10^{6} dl   3) 3.48×10^{9} dl   4) 3.48×10^{-5} dl

13. 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.