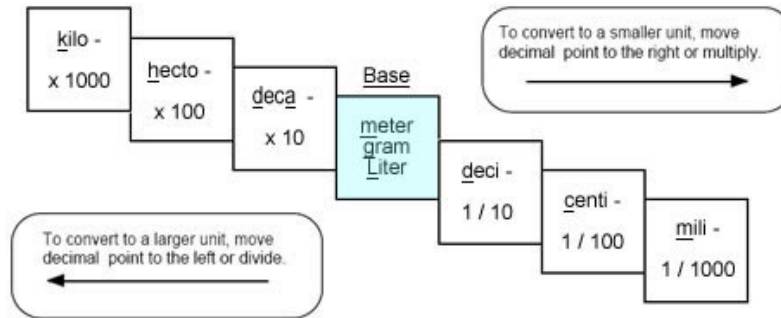


Name: _____ Date: _____

Period: _____

Metric Conversion and Density Practice

Directions: Convert the following measurements. Remember that if you convert from a smaller unit to a larger unit, move the decimal point to the right. If you convert from a larger unit to a smaller unit, move the decimal point to the left.



- | | | | |
|----------------|----|----------------|-----|
| 1. 3.14 dkm = | km | 7. 3456 mL = | L |
| 2. 45 mm = | m | 8. 4.56 dg = | cg |
| 3. 0.567 cL = | hL | 9. 567 mL = | hL |
| 4. 2.34 dg = | kg | 10. 9.0 m = | cm |
| 5. 345 dkL = | mL | 11. 4.567 km = | m |
| 6. 0.4567 mg = | hg | 12. 3.459 g = | dkg |

Directions: Using the equation, density = mass/volume, find the density of the following objects. Write down the density equation when trying to find the density of the object. After finding the density, determine whether the object floats or sinks in water.

Object	Mass	Volume	Density
Air	0.0832 g	64 mL	
Wood	47.6 g	56 cm ³	
Ice	5209.86 g	5602 mL	
Ethanol	533.9 g	562 cm ³	
Water	34 g	34.0 mL	
Aluminum	160.65 g	59.5 cm ³	