

Lesson 18: Virtual Lab: Metal Densities

Chemistry with Lab

DATA TABLE:

	Metal A	Metal B	Metal C
Mass of Empty Graduated Cylinder (g)			
Mass of Graduated Cylinder + Metal (g)			
Mass of Metal (g)			
Volume of Metal Sample (mL)			
Density (g/mL)			

Calculations:

Mass of Metal = Mass of Graduated Cylinder + Metal – Mass of Empty Graduated Cylinder

Metal A:

Metal B:

Metal C:

Lesson 18: Virtual Lab: Metal Densities (cont.)

Chemistry with Lab

Density = Mass of Metal / Volume of Metal Sample

Metal A:

Metal B:

Metal C:

Questions:

Using the values given in the Problem Description, and comparing those values to the density you calculated in your data table, what is the identity of each metal?

1. Metal A:
2. Metal B:
3. Metal C:
4. If the metals were not in powdered form (perhaps, pellets), what would be an alternative way of finding volume?