Name	Date	Score
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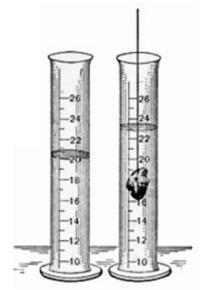
Free Response HW: Density

Period _____

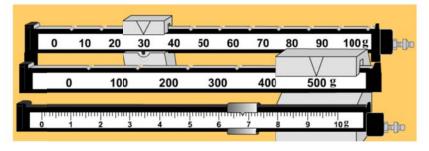
Directions: Solve the final density problems using the steps below:

- a. Write the equation (1 point)
- b. Substitute data into the equation (1 point) with proper units (1 point)
- c. Solve the equation (1 point), rounding to the nearest 0.1 (1 point) with proper units (1 point)
- 1. Determine the density of a Galena sample that has a mass 236.5 grams and a volume of 32.8 cm³?

2. Determine the mass of a rock that has a density 6.3 g/cm³ and whose volume in shown below. Write the volume of the object here: ______



3. Determine the volume of a granite sample that has a density of 2.7 g/cm³ and a mass that is shown below. Write the mass of the object here:



Direct	ions: Solve the final density problems using the steps below: d. Write the equation (1 point) e. Substitute data into the equation (1 point) with proper units (1 point) f. Solve the equation (1 point), rounding to the nearest 0.1 (1 point) with proper units (1 point)
4.	Determine the density of an unknown object, the object has a mass of 16.7 grams and the following measurements: length 2.1 cm, width 1.6 cm and height 3.3 cm. If you placed this object in water (density 1.0 g/ml) would the object float or sink ? Circle one. When you determine the volume you must show your work.
5.	Determine the density of a Pyrite sample that has a mass 816.5 grams and a volume of 163.3 cm ³ ?