Name: _____ Period: _____ Date: _____

Density Worksheet

Please answer all questions as completely as possible showing all calculation and work needed. Also don't forget to include your units!

$$\text{Density} = \text{Mass / Volume}$$

1) Calculate the density of a material that has a mass of 52g and a volume of 14L.

1. Define Variables m = v = d =	2. Equation:
	3. Math:
	4. Answer:

2) You find a rock on the way to school. You determine that the volume of the rock is 23mL, and the mass in 40g. What is the density of the rock?

1. Define Variables m = v = d =	2. Equation:
	3. Math:
	4. Answer:

3) The mass of a toy spoon 8 grams, and its volume is 32mL. What is the density of the toy spoon?

1. Define Variables m = v = d =	2. Equation:
	3. Math:
	4. Answer:

4) A block of aluminum occupies a volume of 15.0 mL and weighs 40.5 g. What is its density?

1. Define Variables	2. Equation:
m =	
	3. Math:
v =	
d =	4. Answer:

5) Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.

1. Define Variables	2. Equation:
m =	
	3. Math:
v =	
d =	4. Answer:

6) 28.5 g of iron shot is added to a graduated cylinder containing 4mL of water. What is the density of iron?

1. Define Variables	2. Equation:
m =	
	3. Math:
v =	
d =	4. Answer: