Physical Science
Assignment 2-3

Read section 2-3. Then, based on the information
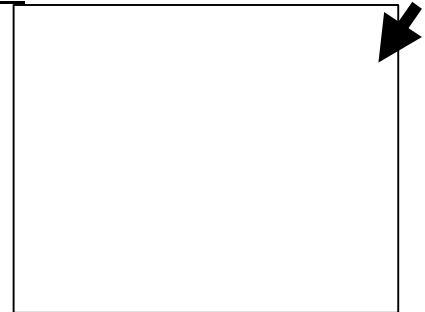in your textbook, answer the following questions :

1. What is *matter*?

   _____

2. What is the definition for *volume*?

   _____

3.   Describe a *cubic centimeter*. on the lines below… then draw a cubic centimeter in this box.

   _____

   _____

   _____

   _____

4. If we put a single, solid cubic centimeter of metal on the balance and determine
   that its mass is 2.6g, what is the *density* of the metal?

   _____

5. Look at figure 2-11. If we have a block of gold that has a volume of 8 cubic
   centimeters, what will be the mass of the block?

   _____

6. If we have 10 mL of a liquid and it has a mass of 122g, what is the density of the liquid?

   _____

7. Write the definition for buoyancy.

   _____

8. Explain how buoyancy and density are related.

   _____

   _____

Please continue on the other side.

9. Explain how divers decrease their average density.

_____

_____

_____

10.   Explain why a hot air balloon rises.

_____

_____

_____

11. Which of the substances in Figure 2-11 would sink in water?

_____

_____

_____

Extra Credit
 If we have a cubic *decimeter* of gold, how many pounds will it weigh?