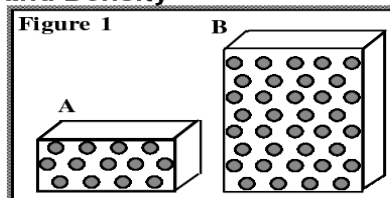


Name \_\_\_\_\_

Date \_\_\_\_\_ Pd \_\_\_\_\_

### Chemistry – Unit 1 Worksheet 3 Mass, Volume, and Density

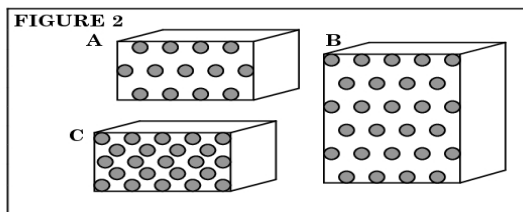
1. Study the matter shown in Figure 1. Each dot represents a particle of matter. [Assume the particles are uniformly distributed throughout each object, and particles of the same size have the same mass.]



- a. In the table below, show how the masses, volumes, and densities of A and B compare by adding the symbol  $<$ ,  $>$ , or  $=$  to the statement in the second column.
- b. Explain your reasoning for each answer in the last column.

Property	Relationship	Reasoning
Mass	A ____ B	
Volume	A ____ B	
Density	A ____ B	

2. Study the matter in Figure 2. [Assume the particles are uniformly distributed throughout each object, and particles of the same size have the same mass.]



- a. In the table below show how the masses, volumes, and densities compare by adding the symbol  $<$ ,  $>$ , or  $=$  to the statement in the second column.
- b. Explain your reasoning for each

Property	Relationship	Reasoning
Mass	A ____ B	
	A ____ C	
Volume	A ____ B	
	A ____ C	
Density	A ____ B	
	A ____ C	