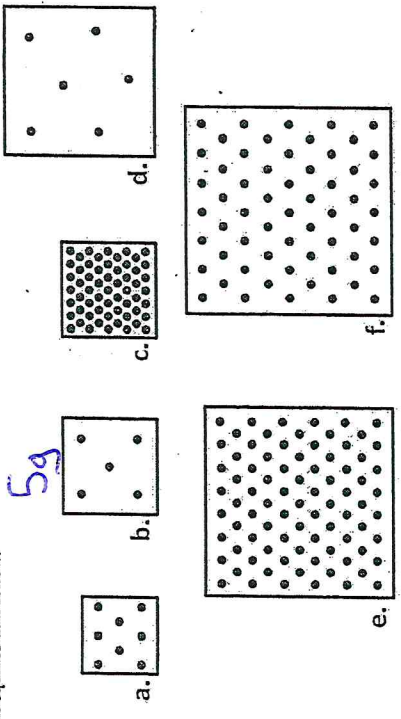


Name: _____ Date: _____

Mass, Volume and Density without Numbers

We have recently talked about the relationship between mass, volume and density. In this worksheet we will continue to explore this relationship. Below are several squares of various sizes which represent their volume. The number of dots inside the squares represents the mass of the object. Answer the questions about the squares that follow.



1. Which object has the greatest mass? Explain. _____
2. Which object has the smallest mass? Explain. _____
3. Which object has the largest volume? Explain. _____
4. Which object has the smallest volume? Explain. _____
5. Which two objects have the same volume? Explain. _____
6. Which two objects have the same mass? Explain. _____

7. If two objects have the same volume do they have to have the same mass? Explain. _____
8. Which object has the greatest density? Explain. _____
9. Which object has the smallest density? Explain. _____
10. Which two objects have the same density? Explain. _____
11. Which two objects would you expect to be made of the same material? Explain. _____
12. Why does the object with the largest volume not have the largest mass also? _____
13. Using squares and dots draw two pictures of objects with different volumes and densities in the space below. The object with smaller volume must have a smaller mass but greater density than the object with greater volume.