

# 1.5 Density Worksheet

block \_\_\_\_\_ name \_\_\_\_\_

The concept of density is sometimes confusing since it has to do with particles that we cannot see (atoms and molecules). If a substance is dense, that means that the atoms/molecules are close together.

**Example:** The dots below represent atoms.

In the first example we have 9 dots – 1 dot per square. There is a lot of space in between the dots (atoms). Look at the square labeled “A”. There is only 1 dot

c.  $5.42 \times 10^{-1} \text{ F}_2$   $2.42 \times 10^{-2} \text{ mol}$

number of moles in each of the number of representative particles.

- a.  $1.20 \times 10^{25}$  atoms of P  $19.9 \text{ mol}$
- b.  $3.87 \times 10^{21}$  molecules of  $\text{AlF}_3$   $6.43 \times 10^{-3} \text{ mol}$
- c.  $4.81 \times 10^{14}$  molecules of  $\text{NH}_3$

5. Find the