What is density?

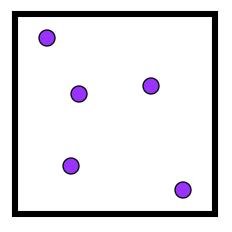
How much "STUFF" in how much "SPACE"

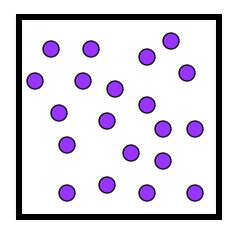


Density = <u>Mass</u> Volume

Which one is more dense?

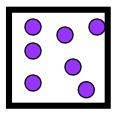
How about this: Which square is more dense?

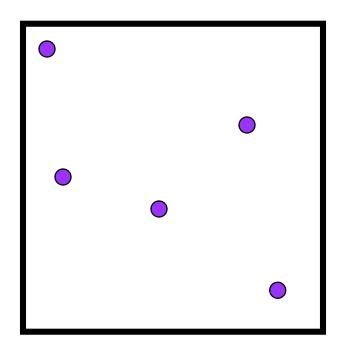




Which one is more dense?

Now which one is more dense?





What are the units for density?

- Density = <u>mass</u>
- volume

- Most common units for density: g or

ALWAYS REMEMBER **UNITS!**

Let's try a density problem together

 Frank has a paper clip. It has a mass of 9g and a volume of 3cm³. What is its density?

Work on these problems with your neighbor.

- 1. Jack has a rock. The rock has a density of 6.73 g/mL and a volume of 8cm³. What is the mass of the rock? **1 mL = 1cm³
- 2. What is the volume of an object if the density is 1.45g/mL and it has a mass of 15.2 grams?
- 3. What is the density of a block if it has the following dimensions and it weighs 45.8 g? 12 cm long, 3 cm tall, and 6.5 cm wide