
NAME:



1. **Imagine you can stack atoms on top of each other one by one, like a tower of blocks. How many atoms will it take to make a tower as tall as a human?**

(In other words, *a human is how many atoms tall?* 😊)

Hint: start with writing the height of a human – you can google the average height or measure your own height – just make sure to use metric units; then recall the size of a single atom (Lecture #5, slide 5); now calculate!

2. **Match the words from the word bank to their meaning. You may need to review Lecture #5.**

- A. _____ is the *amount of 3D space* that a substance or shape occupies or contains.
- B. _____ is the *amount of material* in an object.
- C. _____ is anything that takes up space and has mass.
- D. _____ is how much matter is contained in a unit of volume.

WORD BANK: matter, volume, density, mass