

Alright, let's imagine the jam in a jar as a yummy treat! So, density is like how tightly packed the jam is in the jar. It's like imagining a tightly packed jar of marbles compared to a jar full of feathers, where the marbles would have a higher density.

Now, the density of the jam in the jar is 1.37 grams per cubic centimeter. This means that for every tiny cube of jam that occupies a space of 1 cubic centimeter, it weighs 1.37 grams. It's like saying each building block of jam is quite heavy!

The mass of the jam in the jar is 68.5 grams. This is just the total weight of all the jam in the jar. So, if you were to put the jar on a scale, it would show 68.5 grams.

To find the volume of the jam, we use the formula: $\text{Volume} = \text{Mass} / \text{Density}$. In this case, $\text{Volume} = 68.5 \text{ grams} / 1.37 \text{ grams per cubic centimeter}$. When you divide these numbers, you'll get the volume of the jam in cubic centimeters. And remember, we want the answer to the tenths place, so pay attention to that decimal point!