

## Density Practice Problems

**Remember: Volume can  
be found using  
Volume = length ×  
width × height  
OR  
Water displacement**

### How to solve a word problem:

1. Read the word problem carefully.
2. Determine what is being asked for.
3. Write the formula and plug in the known values.
4. Calculate and solve for the unknown value.
5. Write the answer and corresponding unit.

1. A wooden block has a mass of 562 g and a volume of 72 cm<sup>3</sup>. What is the density?
2. A foam square has a mass of 62 g and a volume of 72 cm<sup>3</sup>. What is the density?
3. A brick has a mass of 562 g and a volume of 43 cm<sup>3</sup>. What is the density?
4. A bottle of water has a volume of 560 mL and a mass of 1250 g. What is the density?
5. A soda has a volume of 560 mL and a density of 3.2 g/mL. What is the mass?
6. A wooden block has a volume of 176 cm<sup>3</sup> and a density of 18.2 g/cm<sup>3</sup>. What is the mass?
7. A soda has a mass of 1500 g and a density of 2.9 g/mL. What is the volume?
8. A wooden block has a mass of 986 g and a density of 16 g/cm<sup>3</sup>. What is the volume?