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- 1. Define "density."
- 2. Are gases more or less dense than liquids or solids at room temperature?
- 3. How does temperature affect the density of a material?
- 4. A certain liquid sample has a volume of 14.7 mL and a mass of 22.8 grams. What is the density?
- 5. A material with a density of 2.7 grams/mL occupies 35.6 mL. How many grams of the material are there?
- 6. A certain material has a density of 19.3 g/mL. What is the material?
- 7. A hot air balloon holds 62,000 cubic meters of helium, a noble gas with a density of 0.1785 kilograms per cubic meter. How many kilograms of helium does the balloon contain?
- 8. Yesterday the local health club had 56 patrons which produced 2,200 BTU's of heat while cutting those carbs. The interior of the health club is 50 feet X 40 feet X 20 feet. To the nearest thousandth, how many BTU's per cubic foot did they produce?