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1. International Mail Carrier, an overnight delivery service, charges \$1.00 per cubic centimeter (cm^3). How much will it cost to send a package that is 13 cm wide, 8 cm long, and 2 cm deep?
2. U.S Quick Delivery charges \$0.10 per cubic inch (in^3) for the same service. How much will it cost to send the same package? (The package is 13 cm wide, 8 cm long, and 12 cm deep.)
3. A 0.016 kg silver bracelet has a volume of 9.27 cm^3 . What is its density?
4. Alcohol has a specific gravity of 0.78 g/cm^3 . What volume would 83 g occupy?
5. In 7 to 12 sentences design an experiment to separate the components of salad dressing (a mixture of oil, vinegar, water, sugar, and herbs). List each step with the appropriate materials necessary.
6. A birthday balloon is blown up with dry air to a volume of 8.4 cm^3 . What is the volume of oxygen?
7. Calculate the relative humidity of water vapor in a sauna (100°F) if the partial pressure is 44.7 torr.

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