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**Include file name:** Chemistry\_Worksheet\_0034

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1. International Mail Carrier, an overnight delivery service, charges \$1.00 per cubic centimeter ( $\text{cm}^3$ ). 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 ( $\text{in}^3$ ) 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  $9.27 \text{ cm}^3$ . What is its density?
4. Alcohol has a specific gravity of  $0.78 \text{ g/cm}^3$ . 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  $8.4 \text{ cm}^3$ . What is the volume of oxygen?
7. Calculate the relative humidity of water vapor in a sauna ( $100^\circ\text{F}$ ) if the partial pressure is 44.7 torr.

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