

6. The new penny is lighter because it is mostly zinc which has a lower density than copper.

### You're The Chemist

- at 90°, mass of 1 drop: 0.019 g  
at 45°, mass of 1 drop: 0.0218 g  
at 0°, mass of 1 drop: 0.0242 g  
Pipets give different results.
- The best angle is 90° because the pipet is easiest to control. Expel the air bubble so that the first drop will be the same size as the rest.
- Find mass of can and divide by density of aluminum. Sample answer: mass of one can: 14.77 g;  
 $d_{\text{Al}}$ : 2.70 g/cm<sup>3</sup>;  $V = 5.47 \text{ cm}^3$
- (1) Measure the mass before and after you fill the can with water. Use the mass and density of water to find the volume.  
(2) Measure the height and radius and calculate volume.  
 $V = \pi r^2 h$   
(Can is not a perfect cylinder.)  
(3) Read label: 12 oz = 355 mL.
- Sample answer:  
 $V = 16.5 \text{ m} \times 3.0 \text{ m} \times 12.8 \text{ m}$   
 $= 630 \text{ m}^3 \times 1000 \text{ L/m}^3$   
 $= 630,000 \text{ L}$   
Assume 30 people with an average weight of 130 lb (1 kg = 2.2 lb) and a density of about 1.0 kg/L.  
Volume of 30 people:  
 $V = 30 \times 130 \text{ lb} \times 1 \text{ kg}/2.2 \text{ lb} \times 1 \text{ L}/1.0 \text{ kg}$   
 $= 1800 \text{ L}$   
The volume of 30 chairs, 15 tables, and 2 desks is about that of 30 people or 1800 L.  
The volume of people and furniture is 3600 L.  
 $\% \text{ error} = (3600 \text{ L}/630,000 \text{ L})(100\%)$   
 $= 0.57\%$ .
- If die measures 1.55 cm on a side:  
 $V = (1.55 \text{ cm})^3 = 3.72 \text{ cm}^3$   
A die has 21 holes that are hemispheres with a radius of 0.20 cm.  
Volume of hemisphere:  $2/3\pi r^3$   
 $V = 2/3\pi r^3 = 0.017 \text{ cm}^3$   
Volume of 21 hemispheres:  $0.36 \text{ cm}^3$   
Volume of die:

$$V = 3.72 \text{ cm}^3 - 0.36 \text{ cm}^3$$

$$= 3.36 \text{ cm}^3$$

$$\text{Error} = 0.36 \text{ cm}^3$$

Percent error

$$= (0.36 \text{ cm}^3/3.36 \text{ cm}^3)(100\%) = 11\%$$

Note: The holes in some dice are cones. The volume of a cone is  $1/3 \pi r^2 h$ .

- Find weight in pounds and convert to kg.  
Assume the density is about 1.00 kg/L.  
 $V = \text{weight} \times 1 \text{ kg}/2.2 \text{ lb} \times 1 \text{ L}/1.00 \text{ kg}$

## Section Review 4.1

### Part A Completion

- |              |                                     |
|--------------|-------------------------------------|
| 1. atoms     | 3. compounds                        |
| 2. different | 4. separated, joined, or rearranged |

### Part B True-False

- |       |       |       |
|-------|-------|-------|
| 5. NT | 6. ST | 7. AT |
|-------|-------|-------|

### Part C Matching

- |      |       |
|------|-------|
| 8. c | 10. d |
| 9. a | 11. b |

### Part D Questions and Problems

12. simple whole-number ratios

13.  $\frac{1 \times 10^6 \text{ atoms}}{\text{cm}^3} \times \frac{100 \text{ cm}^3}{\text{m}} = 10^{10} \text{ atoms/m}$

## Section Review 4.2

### Part A Completion

- |              |                      |
|--------------|----------------------|
| 1. subatomic | 5. nucleus           |
| 2. negative  | 6. Ernest Rutherford |
| 3. protons   | 7. positive          |
| 4. neutrons  | 8. electrons         |

### Part B True-False

- |        |        |
|--------|--------|
| 9. NT  | 11. NT |
| 10. AT | 12. AT |

### Part C Matching

- |       |       |       |
|-------|-------|-------|
| 13. c | 15. e | 17. b |
| 14. a | 16. d |       |

### Part D Questions and Problems

18. protons, neutrons

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**Sebastian Brünink**



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