

# 1

## Physics and Measurement

### CHAPTER OUTLINE

- 1.1 Standards of Length, Mass, and Time
- 1.2 Matter and Model Building
- 1.3 Dimensional Analysis
- 1.4 Conversion of Units
- 1.5 Estimates and Order-of-Magnitude Calculations
- 1.6 Significant Figures

\* An asterisk indicates a question or problem new to this edition.

### ANSWERS TO OBJECTIVE QUESTIONS

**OQ1.1** The meterstick measurement, (a), and (b) can all be 4.31 cm. The meterstick measurement and (c) can both be 4.24 cm. Only (d) does not overlap. Thus (a), (b), and (c) all agree with the meterstick measurement.

**OQ1.2** Answer (d). Using the relation

$$1 \text{ ft} = 12 \text{ in} \left( \frac{2.54 \text{ cm}}{1 \text{ in}} \right) \left( \frac{1 \text{ m}}{100 \text{ cm}} \right) = 0.3048 \text{ m}$$

we find that

$$1420 \text{ ft}^2 \left( \frac{0.3048 \text{ m}}{1 \text{ ft}} \right)^2 = 132 \text{ m}^2$$

**OQ1.3** The answer is yes for (a), (c), and (e). You cannot add or subtract a number of apples and a number of jokes. The answer is no for (b) and (d). Consider the gauge of a sausage, 4 kg/2 m, or the volume of a cube, (2 m)<sup>3</sup>. Thus we have (a) yes; (b) no; (c) yes; (d) no; and (e) yes.

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**Abebe Henok**



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