

2 Physics and Measurement

- QGL4** $40\text{ L} + 40\text{ L} (5\text{ L}/1.3\text{ kg})\text{ oil} + 40\text{ L} (8\text{ gal}/4\text{ gal}) + (20/1.3)\text{ gal} = 8\text{ gallons}$, answer (c).
- QGL5** The number of decimal places in a sum of numbers should be the same as the smallest number of decimal places in the numbers summed.
- 25.4 m
 18 m
 17.17 m
 4.005 m
 $57.575\text{ m} = 58\text{ m}$, answer (d).
- QGL7** The population is about 6 billion $= 6 \times 10^9$. Assuming about 100 lb per person $=$ about 50 kg per person (1 kg has the weight of about 2.2 lb), the total mass is about $30 \times 10^9 (50\text{ kg}) = 3 \times 10^{12}\text{ kg}$, answer (d).
- QGL8** No. A dimensionally correct equation need not be true. Example: 1 chimpanzee $=$ 2 chimpanzees is dimensionally correct.
- Yes. If an equation is not dimensionally correct, it cannot be correct.
- QGL9** Mass is measured in kg; acceleration is measured in m/s^2 . Force $=$ mass $\times$ acceleration, so the units of force are answer (a) $\text{kg m}/\text{s}^2$.
- QGL10** $0.02(1.36) = 0.03$. The result is $(1.37 \pm 0.05) \times 10^7\text{ kg}$, for (d) 3 digits are significant.

ANSWERS TO CONCEPTUAL QUESTIONS

- CQ1.1** Density varies with temperature and pressure. It would be necessary to measure both mass and volume very accurately in order to use the density of water as a standard.
- CQ1.2** The metric system is considered superior because units larger and smaller than the basic units are simply related by multiples of 10. Examples: $1\text{ km} = 10^3\text{ m}$, $1\text{ mg} = 10^{-3}\text{ g} = 10^{-6}\text{ kg}$, $1\text{ ns} = 10^{-9}\text{ s}$.
- CQ1.3** A unit of time should be based on a reproducible standard so it can be used everywhere. The more accuracy required of the standard, the less the standard should change with time. The current, very accurate standard is the period of vibration of light emitted by a certain atom. Depending on the accuracy required, other standards could be: the period of light emitted by a different atom, the period of the swing of a pendulum at a certain place on Earth, the period of vibration of a sound wave produced by a string of a specific length, density, and tension, and the time interval from full Moon to full Moon.
- CQ1.4** (a) 0.3 millimeters; (b) 50 micrometers; (c) 7.2 kilograms.

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Paul A. Tipler



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