1.6 (a) Solving  $KE = \frac{p^2}{2m}$  for the momentum, p, gives  $p = \sqrt{2m(KE)}$  where the numeral 2 is a dimensionless constant, Dimensional analysis gives the units of momentum as:

$$[p] = \sqrt{[m][KE]} = \sqrt{M(M-L^2/T^2)} = \sqrt{M^2 \cdot L^2/T^2} = M(L/T)$$

Therefore, in the SI system, the units of momentum are kg-(m/s)

(b) Note that the units of force are kg · m/s² or [F] = M · L/T². Then, observe that

$$[F][r] = (M \cdot L/T^2) \cdot T = M(L/T) = [p]$$

From this, it follows that force multiplied by time is proportional to momentum: [Fr = p]. (See the impulse-momentum theorem in Chapter 6,  $F - \Delta t = \Delta p$ , which says that a constant force F multiplied by a duration of time  $\Delta t$  equals the change in momentum,  $\Delta p$ .)

- 1.7 Area =  $(length) \times (width) = (9.72 \text{ m})(5.3 \text{ m}) = 52 \text{ m}^2$
- 1.8 (a) Computing (√8)<sup>3</sup> without rounding the intermediate result yields (√8)<sup>3</sup> = [22.6] to three significant figures.
  - (b) Rounding the intermediate result to three significant figures yields

$$\sqrt{8} = 2.8284 \rightarrow 2.83$$

Then, we obtain  $(\sqrt{8})^3 = (2.83)^3 = \boxed{22.7}$  to three significant figures.

- (c) The answer 22.6 is more reliable because rounding in part (b) was carried out too soon.
- 1.9 (a) 78.9 ± 0.2 has 3 significant figures with the uncertainty in the tenths position.
  - (b) 3.788×10° has 4 significant figures
  - (c) 2.46×10<sup>-6</sup> has 3 significant figures
  - (d) 0.003 2 = 3.2×10<sup>-3</sup> has 2 significant figures. The two zeros were originally included only to position the decimal.
- 1.10  $c = 2.997 924 58 \times 10^6 \text{ m/s}$ 
  - (a) Rounded to 3 significant figures:  $c = 3.00 \times 10^6$  m/s
  - (b) Rounded to 5 significant figures: e = 2.997 9×10<sup>8</sup> m/s
  - (c) Rounded to 7 significant figures:  $c = 2.997.925 \times 10^6$  m/s
- 1.11 Observe that the length \( \epsilon = 5.62\) cm, the width \( w = 6.35\) cm, and the height \( h = 2.78\) cm all contain 3 significant figures. Thus, any product of these quantities should contain 3 significant figures.
  - (a)  $f_W = (5.62 \text{ cm})(6.35 \text{ cm}) = [35.7 \text{ cm}^2]$
  - (b)  $V = (\ell w)h = (35.7 \text{ cm}^2)(2.78 \text{ cm}) = [99.2 \text{ cm}^3]$

# **Solution Manual For College Physics 8th**

**Lauren Gardner** 

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