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:

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

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 Δt equals the change in momentum, Δp .)

- 1.7 Area = $(length) \times (width) = (9.72 \text{ m})(5.3 \text{ m}) = 52 \text{ m}^2$
- 1.8 (a) Computing (√8)³ without rounding the intermediate result yields (√8)³ = [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) 2.46×10⁻⁶ has 3 significant figures
 - (d) 0.003 2 = 3.2×10⁻³ 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 9×10⁸ 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) $V = (\ell w)h = (35.7 \text{ cm}^2)(2.78 \text{ cm}) = [99.2 \text{ cm}^3]$

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