

## 6 Physics and Measurement

**P1.15** (a) This is incorrect since the units of  $[ax]$  are  $m^2/s^2$ , while the units of  $[v]$  are  $m/s$ .

(b) This is correct since the units of  $[y]$  are  $m$ , and  $\cos(kx)$  is dimensionless if  $[k]$  is in  $m^{-1}$ .

**\*P1.16** (a)  $a \propto \frac{\sum F}{m}$  or  $a = k \frac{\sum F}{m}$  represents the proportionality of acceleration to resultant force and the inverse proportionality of acceleration to mass. If  $k$  has no dimensions, we have

$$[a] = [k] \frac{[F]}{[m]}, \quad \frac{L}{T^2} = 1 \frac{[F]}{M}, \quad [F] = \frac{M \cdot L}{T^2}.$$

(b) In units,  $\frac{M \cdot L}{T^2} = \frac{kg \cdot m}{s^2}$ , so 1 newton = 1 kg · m/s<sup>2</sup>.

**P1.17** Inserting the proper units for everything except  $G$ ,

$$\left[ \frac{kg \cdot m}{s^2} \right] = \frac{G [kg]^2}{[m]^2}.$$

Multiply both sides by  $[m]^2$  and divide by  $[kg]^2$ ; the units of  $G$  are \frac{m^3}{kg \cdot s^2}.

### Section 1.5 Conversion of Units

**\*P1.18** Each of the four walls has area  $(8.00 \text{ ft})(12.0 \text{ ft}) = 96.0 \text{ ft}^2$ . Together, they have area  $4(96.0 \text{ ft}^2) \left( \frac{1 \text{ m}}{3.28 \text{ ft}} \right)^2 = \text{span style="border: 1px solid black; padding: 2px;">35.7 m}^2$ .

**P1.19** Apply the following conversion factors:

$$1 \text{ in} = 2.54 \text{ cm}, \quad 1 \text{ d} = 86\,400 \text{ s}, \quad 100 \text{ cm} = 1 \text{ m}, \quad \text{and} \quad 10^9 \text{ nm} = 1 \text{ m}$$

$$\left( \frac{1}{32} \text{ in/day} \right) \frac{(2.54 \text{ cm/in})(10^{-2} \text{ m/cm})(10^9 \text{ nm/m})}{86\,400 \text{ s/day}} = \text{span style="border: 1px solid black; padding: 2px;">9.19 \text{ nm/s}}$$

This means the proteins are assembled at a rate of many layers of atoms each second!

**\*P1.20**  $8.50 \text{ in}^3 = 8.50 \text{ in}^3 \left( \frac{0.0254 \text{ m}}{1 \text{ in}} \right)^3 = \text{span style="border: 1px solid black; padding: 2px;">1.39 \times 10^{-4} m}^3$

# Serway Physics Solutions 6th Edition Manual

**McGraw Hill**



## **Serway Physics Solutions 6th Edition Manual:**

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