

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

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

(b) In units, $\frac{\text{M} \cdot \text{L}}{\text{T}^2} = \frac{\text{kg} \cdot \text{m}}{\text{s}^2}$, so 1 newton = 1 kg · m/s².

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

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

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

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:

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

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

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

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

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