**1/1**

(a) $m = \dfrac{W}{g} = \dfrac{3600}{32.2} = \underline{111.8 \text{ slugs}}$

(b) $W = 3600 \text{ lb} \left[ \dfrac{4.4482 \text{ N}}{\text{lb}} \right] = \underline{16 010 \text{ N}}$

(c) $m = \dfrac{W}{g} = \dfrac{16 018}{9.81} = \underline{1632 \text{ kg}}$

$\left( \text{or } m = 111.8 \text{ slugs} \left[ \dfrac{14.594 \text{ kg}}{\text{slug}} \right] = 1632 \text{ kg} \right)$

**1/2**   For a 180-lb person :

$W = mg : \quad 180 \text{ lb} = m (32.2 \text{ ft/sec}^2)$

$m = \underline{5.59 \text{ slugs}}$

$180 \text{ lb} \left( \dfrac{4.4482 \text{ N}}{\text{lb}} \right) = \underline{801 \text{ N}}$

$W = mg : \quad 801 \text{ N} = m (9.81 \text{ m/s}^2)$

$m = \underline{81.6 \text{ kg}}$

**1/3**   $\underline{V}_1 = 15 \left( \dfrac{4}{5} \underline{i} + \dfrac{3}{5} \underline{j} \right) = 12\underline{i} + 9\underline{j}$

$\underline{V}_2 = 12 (-\cos 60° \underline{i} + \sin 60° \underline{j}) = -6\underline{i} + 10.39\underline{j}$

$V_1 + V_2 = 15 + 12 = \underline{27}$

$\underline{V}_1 + \underline{V}_2 = (12-6)\underline{i} + (9+10.39)\underline{j} = \underline{6\underline{i} + 19.39\underline{j}}$

$\underline{V}_1 - \underline{V}_2 = (12-(-6))\underline{i} + (9-10.39)\underline{j} = \underline{18\underline{i} - 1.392\underline{j}}$

$\underline{V}_1 \times \underline{V}_2 = (12\underline{i} + 9\underline{j}) \times (-6\underline{i} + 10.39\underline{j})$

$= (124.7 + 54)\underline{k} = \underline{178.7 \underline{k}}$

$\underline{V}_2 \times \underline{V}_1 = -(\underline{V}_1 \times \underline{V}_2) = \underline{-178.7 \underline{k}}$

$\underline{V}_1 \cdot \underline{V}_2 = (12\underline{i} + 9\underline{j}) \cdot (-6\underline{i} + 10.39\underline{j})$

$= 12(-6) + 9(10.39) = \underline{21.5}$

**1/4**   The weight of an average apple is

$W = \dfrac{5 \text{ lb}}{12 \text{ apples}} = 0.417 \text{ lb}$

Mass in slugs is $m = \dfrac{W}{g} = \dfrac{0.417}{32.2} = 0.01294 \text{ slugs}$

Mass in kg is $m = 0.01294 \text{ slugs} \left( \dfrac{14.594 \text{ kg}}{1 \text{ slug}} \right)$

$= 0.1888 \text{ kg}$

Weight in N is $W = mg = 0.1888 (9.81) = \underline{1.853 \text{ N}}$

These apples weigh closer to 2 N each Than
to the rule of 1 N each !

**1/5**   Mass of iron sphere $m = \rho V$

$= \left( 7210 \dfrac{\text{kg}}{\text{m}^3} \right) \left( \dfrac{4}{3} \pi (0.050)^3 \right) = 3.78 \text{ kg}$

Force of mutual attraction : $\dfrac{Gm^2}{d^2}$

Weight of each sphere : $\dfrac{G m_e m}{r^2}$

$\dfrac{Gm^2}{d^2} = \dfrac{G m_e m}{r^2}, \quad r = d\sqrt{\dfrac{m_e}{m}}$

$= 0.1 \sqrt{\dfrac{5.976 \times 10^{24}}{3.78}} \cdot \dfrac{1}{10^3}$

$= \underline{1.257 (10^9) \text{ km}}$

**1/6**

$r = 0.050 \text{ m}$ for all spheres

$F_B = \dfrac{G m_A m_B}{d_{AB}^2} = \dfrac{G (\rho_A \frac{4}{3}\pi r^3)(\rho_B \frac{4}{3}\pi r^3)}{d_{AB}^2}$

$= \dfrac{6.673(10^{-11}) \left[ \frac{4}{3}\pi (0.050)^3 \right]^2 (8710)(2690)}{1^2}$

$= 4.38 (10^{-10}) \text{ N}$

$F_C = \dfrac{G m_A m_C}{d_{AC}^2} = \dfrac{G \left[ \frac{4}{3}\pi r^3 \right]^2 \rho_A \rho_C}{d_{AC}^2}$

$= \dfrac{6.673(10^{-11}) \left[ \frac{4}{3}\pi (0.050)^3 \right]^2 (8710)(7210)}{1^2}$

$= 1.175 (10^{-9}) \text{ N}$

$\underline{R} = \underline{F}_B + \underline{F}_C = 4.38(10^{-10}) \left[ -\sin 30° \underline{i} + \cos 30° \underline{j} \right]$

$+ 1.175 (10^{-9}) \left[ \sin 30° \underline{i} + \cos 30° \underline{j} \right]$

$\underline{R} = \underline{(3.68\underline{i} + 13.98\underline{j}) 10^{-10} \text{ N}}$

**1/7**   $g_h = \dfrac{G m_e}{(R+h)^2}$

$= \dfrac{(3.439 \times 10^{-8})(4.095 \times 10^{23})}{[(3959)(5280) + (150)(5280)]^2} = \underline{29.9 \text{ ft/sec}^2}$

Mass of man : $m = \dfrac{W}{g} = \dfrac{200}{32.174} = 6.22 \text{ slugs}$

Absolute weight at hr 150 miles :

$W_h = m g_h = (6.22)(29.9) = \underline{186.0 \text{ lb}}$

The terms "zero-g" and "weightless"
are definitely misnomers in this instance.

**1/8**   $mg = 0.1 m g_0$

$\dfrac{R^2}{(R+h)^2} g_0 = 0.1 g_0$

Solve for $h$ to obtain $\underline{h = 2.16R}$

# Dynamics 6th Edition Meriam Kraige Solution Chapter 6

James L. Meriam,L. G. Kraige,J. N. Bolton

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