

1/1

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

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

(c) $m = \frac{W}{g} = \frac{16,010}{9.81} = 1632 \text{ kg}$

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

1/2 For a 180-lb person:

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

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

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

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

$m = 81.6 \text{ kg}$

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

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

$\underline{V}_1 + \underline{V}_2 = 15 + 12 = 27$

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

$\underline{V}_1 - \underline{V}_2 = (12-(-6)) \underline{i} + (9-10.39) \underline{j} = 18 \underline{i} - 1.39 \underline{j}$

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

$= (24.7 + 54) \underline{k} = 178.7 \underline{k}$

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

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

$= 12(-6) + 9(10.39) = 21.5$

1/4 The weight of an average apple is

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

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

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

$= 0.1888 \text{ kg}$

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

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

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

$= (7210 \frac{\text{kg}}{\text{m}^3}) \left(\frac{4}{3} \pi (0.05)^3 \right) = 3.78 \text{ kg}$

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

Weight of each sphere: $\frac{Gm_0 m}{r^2}$

$\frac{Gm^2}{d^2} = \frac{Gm_0 m}{r^2}$, $r = d \sqrt{\frac{m_0}{m}}$

$= 0.1 \sqrt{\frac{2.97 \times 10^{22}}{3.78}} \frac{1}{10^3}$

$= 1.258 (10^3) \text{ km}$

1/6  $r = 0.050 \text{ m}$ for all spheres

$\underline{F}_B = \frac{G m_0 m_c}{d_{BC}^2} = \frac{G \left(\frac{4}{3} \pi r^3 \right) \left(\frac{4}{3} \pi r^3 \right)}{d_{BC}^2}$

$= \frac{6.673(10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8700)(2690)}{1^2}$

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

$\underline{F}_C = \frac{G m_0 m_c}{d_{AC}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 r_0 r_c}{d_{AC}^2}$

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

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

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

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

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

1/7 $g_h = \frac{Gm_0}{(R+h)^2}$

$= \frac{(3.439 \times 10^{25}) (4.075 \times 10^{22})}{[(3957)(5280) + (150)(5280)]^2} = 29.9 \text{ ft/sec}^2$

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

Absolute weight at h = 150 miles:

$W_h = mg_h = (6.22)(29.9) = 186.0 \text{ lb}$

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

1/8 $mg = 0.1 mg_0$

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

Solve for h to obtain $h = 2.16R$

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Jiyuan Zhang



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