

1/1

$$6) m = \frac{W}{g} = \frac{3600}{32.2} = 111.8 \text{ slugs}$$

$$6) W = 3600 \text{ lb} \left[\frac{4.4482 \text{ N}}{\text{lb}} \right] = 16,014 \text{ N}$$

$$6) m = \frac{W}{g} = \frac{16,014}{9.81} = 1632 \text{ kg}$$

(or $m = 111.8 \text{ slugs} \left[\frac{14.5934 \text{ kg}}{\text{slug}} \right] = 1632 \text{ kg}$)

1/2

For a 180-lb person:

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

$$m = \frac{5.59 \text{ slugs}}{180 \text{ lb} \left(\frac{4.4482 \text{ N}}{\text{lb}} \right)} = 301 \text{ N}$$

$$W = mg : 301 \text{ N} = m(9.81 \text{ m/s}^2)$$

$$m = 30.6 \text{ kg}$$

1/3

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

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

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

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

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

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

$$= (24.7 + 54)\hat{k} = 78.7\hat{k}$$

$$\vec{V}_2 \times \vec{V}_1 = -(\vec{V}_1 \times \vec{V}_2) = -78.7\hat{k}$$

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

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

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 $m = 0.01294 \text{ slugs} \left(\frac{14.5934 \text{ kg}}{1 \text{ slug}} \right) = 0.1888 \text{ kg}$

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 $m = \rho V$

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

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


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

$$\frac{Gm^2}{d^2} = \frac{Gm_e m}{r^2}, \quad r = d \sqrt{\frac{m_e}{m}}$$

$$= 0.1 \sqrt{\frac{2.49 \times 10^{-24}}{3.78}} \frac{1}{10^3}$$

$$= 2.251(10^{-9}) \text{ km}$$

1/6



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

$$F_A = \frac{Gm_A m_B}{d_{AB}^2} = \frac{G \left(\frac{4}{3} \pi r^3 \right) \left(\frac{4}{3} \pi r^3 \right)}{d_{AB}^2}$$

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

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

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

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

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

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

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

$$\vec{R} = (3.68\hat{i} - 12.98\hat{j}) 10^{-10} \text{ N}$$

1/7

$$g_h = \frac{Gm_e}{(R+h)^2}$$

$$= \frac{(6.673 \times 10^{-11}) (4.075 \times 10^{22})}{[(3957)(5280) + (0.50)(5280)]^2} = 2.77 \text{ ft/sec}^2$$

Mass of man: $m = \frac{W}{g} = \frac{250}{32.174} = 7.77 \text{ slugs}$

Person's weight at $h = 150$ miles:

$$W_h = mg_h = (7.77)(2.77) = 21.5 \text{ lb}$$

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

1/8

$$mg = 0.1 mg_0$$

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

Solve for h to obtain $h = 2.16R$

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