

1/1

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

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

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

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

1/2

For a 180-lb person:

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

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

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

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

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

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

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

$$\text{Mass in kg is } m = 0.01294 \text{ slugs} \left( \frac{14.594 \text{ kg}}{1 \text{ slug}} \right) = 0.1888 \text{ kg}$$

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

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:  $\frac{Gm_e m}{r^2}$ 

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

$$= 0.1 \sqrt{\frac{5.97 \times 10^{24}}{3.78}} \frac{1}{10^3}$$

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

1/6

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

$$\underline{F_g} = \frac{Gm_e m}{d_{eg}^2} = \frac{G \left( f_a \frac{4}{3} \pi r^3 \right) \left( f_g \frac{4}{3} \pi r^3 \right)}{d_{eg}^2}$$

$$= \frac{6.673 (10^{-11}) \left[ \frac{4}{3} \pi (0.050)^3 \right]^2 (8910)(2670)}{1^2}$$

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

$$\underline{F_c} = \frac{Gm_e m_c}{d_{ec}^2} = \frac{G \left[ \frac{4}{3} \pi r^3 \right]^2 f_a f_c}{d_{ec}^2}$$

$$= \frac{6.673 (10^{-11}) \left[ \frac{4}{3} \pi (0.050)^3 \right]^2 (8910)(7210)}{1^2}$$

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

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

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

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

1/7

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

$$= \frac{(3.439 \times 10^{-8}) (4.075 \times 10^{23})}{[(3959)(5280) + (150)(5280)]^2} = 2.99 \text{ 1/sec}^2$$

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

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

$$mg = 0.1 mg_0$$

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

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

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web may 21 2013 1 got piston at tdc 2 lock fly wheel 3 opened the cam covers you have to remove the housing for the coil pack 4 when all showed me its at tdc i inserted the cam tools and ya there she blows the exhaust and intake cam timing was out not by much on the timing tool side but on the pulleys about 2 3 teeth either side

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web jan 4 2020 my palio 1 6 16v just won t idle i have replaced the map sensor had the timing belt replaced and double checked the throttle body just in case the idle control valve was not working even after all this expense the car has not changed its unusual behavior

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web jun 27 2015 well still not right have to take it to fiat to set timing right can only be done via computer i have a 1 6 16v weekender there is a cam timing tool you can buy from a place in durban or cape town about r1600 00 for one use it sets the cam on its right place once you have set crank pully on tdc mark etc etc but i cant

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yedek parçacılardan yan sanayi temin edip bunları kolayca takabilirdin elektrik içinde göğüslüğün sökölmesine hiç gerek yok bir oto elektrikliye git hemen halleder kolay gelsin 0

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web feb 19 2017 there are no timing mark for the palio 1 6 16v unless the previous guy that changed the cam belt had savvy and made but even with the cam locking tools my timing isn t 100 dm me if you want you need assistance just got my car running again after the cam belt snapped all 16valves where bent good luck

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