

1/1

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

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

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

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

1/2 For a 180-lb person:

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

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

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

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

$$1/3 \quad \underline{V_1 = 15 \left(\frac{5}{16} \hat{i} + \frac{3}{8} \hat{j} \right) = 12 \hat{i} + 9 \hat{j}}$$

$$\underline{V_2 = 12 (-\cos 60^\circ \hat{i} + \sin 60^\circ \hat{j}) = -6 \hat{i} + 10.39 \hat{j}}$$

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

$$\underline{V_1 + V_2 = (12 - 6) \hat{i} + (9 + 10.39) \hat{j} = 6 \hat{i} + 19.39 \hat{j}}$$

$$\underline{V_1 - V_2 = (12 - (-6)) \hat{i} + (9 - 10.39) \hat{j} = 18 \hat{i} - 1.39 \hat{j}}$$

$$\underline{V_1 \times V_2 = (12 \hat{i} + 9 \hat{j}) \times (-6 \hat{i} + 10.39 \hat{j})}$$

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

$$\underline{V_2 \times V_1 = - (V_1 \times V_2) = -178.7 \hat{k}}$$

$$\underline{V_1 \cdot V_2 = (12 \hat{i} + 9 \hat{j}) \cdot (-6 \hat{i} + 10.39 \hat{j})}$$

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

1/4 The weight of an average apple is

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

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

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

$$= \underline{0.1888 \text{ kg}}$$

$$\text{Weight in N is } W = mg = 0.1888 (9.8) = \underline{1.853 \text{ N}}$$

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

1/5

$$\text{Mass of iron sphere } m = \rho V$$

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

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

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

$$\frac{Gm^2}{d^2} = \frac{Gm_E m}{r^2}, \quad r = d \sqrt{\frac{m_E}{m}}$$

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

$$= \underline{1.255 (10^3) \text{ km}}$$

1/6



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

$$F_G = \frac{Gm_1 m_2}{d_{12}^2} = \frac{G \left(\rho \frac{4}{3} \pi r^3 \right) \left(\rho \frac{4}{3} \pi r^3 \right)}{d_{12}^2}$$

$$= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2}$$

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

$$F_c = \frac{Gm_1 m_2}{d_{12}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 \rho_1 \rho_2}{d_{12}^2}$$

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

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

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

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

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

1/7

$$3h = \frac{Gm_E}{(R+h)^2}$$

$$= \frac{(3.439 \times 10^8) (4.075 \times 10^{-3})}{[(3757)(5280) + (0.50)(5280)]^2} = \underline{29.9 \text{ ft/sec}^2}$$

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

Absolute weight at $h = 150$ miles:

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

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

1/8

$$mg = 0.1 mg_0$$

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

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

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ML Yell



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web explicit direct instruction lesson plan template grade level idab discipline t apple content standard n a underline the part of the content standard that is being addressed in the lesson routine 1 presentation learning objectives must be written in terms of a situation and a behavior objective

explicit instruction lesson plan template the doing what - Oct 07 2023

web trainers reading specialists and coaches are encouraged to use this lesson planner to help interventionists implement explicit teaching strategies the tool includes a lesson plan worksheet and a self reflection form for assessing the use of explicit instruction during intervention sessions

explicit instruction lesson plan for skills strategies cedar - Jul 04 2023

web do the lesson describe new skill or strategy using clear and concise language model new skill or strategy using carefully selected and sequenced steps show how to perform physical behaviors for skill or strategy