1/1

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

(b) $W = 3600 \text{ lb}\left[\frac{4.4482 \text{ N}}{1 \text{ lb}}\right] = \underline{16,010 \text{ N}}$

(c) $m = \frac{W}{g} = \frac{16,015}{9.81} = \underline{1632 \text{ kg}}$

$\left(\text{or } m = 111.8 \text{ slugs}\left[\frac{14.594 \text{ kg}}{1 \text{ slug}}\right] = 1632 \text{ kg}\right)$

1/2 For a 180-lb person:

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

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

$180 \text{ lb}\left(\frac{4.4482 \text{ N}}{1 \text{ lb}}\right) = \underline{801 \text{ N}}$

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

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

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

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

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

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

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

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

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

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

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

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

1/4 The weight of an average apple is

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

Mass in slugs is $m = \frac{W}{g} = \frac{0.417}{32.2} = 0.0129 \text{ slugs}$

Mass in kg is $m = 0.0129 \text{ slugs}\left(\frac{14.594 \text{ kg}}{1 \text{ slug}}\right)$

$= \underline{0.188 \text{ kg}}$

Weight in N is $W = mg = 0.188(9.81) = \underline{1.853 \text{ N}}$

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

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

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

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

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

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

$= 0.1\sqrt{\frac{5.98(10^{24})}{3.78}} \frac{1}{10^3}$

$= \underline{1.258(10^6) \text{ km}}$

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

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

$= \frac{6.673(10^{-11})\left[\frac{4}{3}\pi(0.050)^3\right]^2(8730)(2690)}{1^2}$

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

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

$= \frac{6.673(10^{-11})\left[\frac{4}{3}\pi(0.050)^3\right]^2(8730)(7200)}{1^2}$

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

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

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

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

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

$= \frac{(3.439 \times 10^{14})(4.095 \times 10^{13})}{[(3959)(5280) + (150)(5280)]^2} = \underline{29.9 \text{ ft/sec}^2}$

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

Resulting weight at h = 150 miles:

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

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

1/8 $mg = 0.1 mg_0$

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

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

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Rachel Sandford

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Table of Contents Meriam Dynamics 6th Edition Solutions

1. Understanding the eBook Meriam Dynamics 6th Edition Solutions
    - The Rise of Digital Reading Meriam Dynamics 6th Edition Solutions
    - Advantages of eBooks Over Traditional Books
2. Identifying Meriam Dynamics 6th Edition Solutions
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Meriam Dynamics 6th Edition Solutions
    - User-Friendly Interface

4. Exploring eBook Recommendations from Meriam Dynamics 6th Edition Solutions
    - Personalized Recommendations
    - Meriam Dynamics 6th Edition Solutions User Reviews and Ratings
    - Meriam Dynamics 6th Edition Solutions and Bestseller Lists
5. Accessing Meriam Dynamics 6th Edition Solutions Free and Paid eBooks
    - Meriam Dynamics 6th Edition Solutions Public Domain eBooks
    - Meriam Dynamics 6th Edition Solutions eBook Subscription Services
    - Meriam Dynamics 6th Edition Solutions Budget-Friendly Options
6. Navigating Meriam Dynamics 6th Edition Solutions eBook Formats
    - ePub, PDF, MOBI, and More
    - Meriam Dynamics 6th Edition Solutions Compatibility with Devices
    - Meriam Dynamics 6th Edition Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Meriam Dynamics 6th Edition Solutions
    - Highlighting and Note-Taking Meriam Dynamics 6th Edition Solutions
    - Interactive Elements Meriam Dynamics 6th Edition Solutions
8. Staying Engaged with Meriam Dynamics 6th Edition Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Meriam Dynamics 6th Edition Solutions
9. Balancing eBooks and Physical Books Meriam Dynamics 6th Edition Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Meriam Dynamics 6th Edition Solutions
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Meriam Dynamics 6th Edition Solutions
    - Setting Reading Goals Meriam Dynamics 6th Edition Solutions
    - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Meriam Dynamics 6th Edition Solutions
    - Fact-Checking eBook Content of Meriam Dynamics 6th Edition Solutions
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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