

Homework Solutions
Chapter #1

1-5

If a car is traveling at 55 mph.

a) Determine its speed in kilometers per hour

Convert miles per hour to kilometers per hour

Known: 1 mile = 1.609 km

$$55 \text{ mph} = \left(55 \frac{\text{miles}}{\text{hour}} \right) \left(\frac{1.609 \text{ km}}{1 \text{ mile}} \right) = 88.5 \text{ km/h}$$

b) Determine its speed in meters per second

Known: 1 mile = 1609 m

$$55 \text{ mph} = \left(55 \frac{\text{miles}}{\text{hour}} \right) \left(\frac{1609 \text{ m}}{1 \text{ mile}} \right) \left(\frac{1 \text{ hour}}{3600 \text{ sec}} \right) = 24.6 \text{ m/s}$$

1-7

A rocket has mass of $250(10^3)$ slugs on earth.

a) Its mass in SI units

$$250(10^3) \text{ slugs} = \left(250(10^3) \text{ slugs} \right) \left(\frac{14.5938 \text{ kg}}{1 \text{ Slug}} \right) = 3.64845(10^6) \text{ kg} = 3.65 \text{ Gg}$$

b) Its weight in SI units

$$W_e = mg = \left[3.64845(10^6) \text{ kg} \right] 9.81 \frac{\text{m}}{\text{s}^2} = 35.791(10^6) \frac{\text{kg} \cdot \text{m}}{\text{s}^2} = 35.8 \text{ MN}$$

c) If the rocket is on the moon, where the acceleration due to gravity is $g_m = 5.30 \text{ ft/sec}^2$, its weight in SI units

$$W_m = mg_m = \left[250(10^3) \text{ slugs} \right] \left(5.30 \frac{\text{ft}}{\text{s}^2} \right) = \left[1.325(10^6) \text{ lb} \right] \left(\frac{4.4482 \text{ N}}{1 \text{ lb}} \right) = 5.894(10^6) \text{ N} = 5.89 \text{ MN}$$

d) If the rocket is on the moon, where the acceleration due to gravity is $g_m = 5.30 \text{ ft/sec}^2$, its weight in SI units

$$m_m = m_e = 3.65(10^6) \text{ kg} = 3.65 \text{ Gg}$$

Modern Physics Chapter 1 Homework Solutions

M Woodhall



Modern Physics Chapter 1 Homework Solutions:

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Evaluation Package for Cutnell and Johnson Physics 8E Cutnell, 2008-10-28

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