

acceleration due
to gravity on Jupiter.

$$5. \quad F_g = \frac{G m_J m_o}{R^2} = \frac{6.67 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2} (1.9 \times 10^{27} \text{kg}) m_o}{(7.2 \times 10^7 \text{m})^2}$$

$$F_g = 24.44 \frac{\text{N}}{\text{kg}} = 24.44 \frac{\text{kg m/s}^2}{\text{kg}}$$

$$F_g = 24. \text{m/s}^2$$