1. Textbook: Page 132: 1-5
2. Determine the force of gravitation exerted on Earth by the Sun. The mass of the Sun is $1.99 \times 10^{30}$ kg , the mass of the Earth is $5.98 \times 10^{24} \mathrm{~kg}$ and the distance between the two is $1.496 \times 10^{11} \mathrm{~m}$.
3. Determine the acceleration due to gravity on the surface of the Moon. Mass of the Moon $=7.36 \times 10^{22}$ kg and the Radius of the Moon $=1.74 \times 10^{6} \mathrm{~m}$.
4. What is the weight of a 50 kg person on the surface of the Earth and on the surface of the moon?
5. If an object weighs 100 N on the Earth, what is its mass? If the another object weighs 100 N on the Moon, what is its mass?
