

4.2 Review Questions

1. What's the difference between mass and weight?

2. Fill in the chart below:

	Mass (Kg)	Weight on Earth (N)
Lamp	3.0	
Apple		2.0
Notebook		5.3
Person	75.0	

3. ($g_{\text{earth}} = 9.8 \text{ N/kg}$, $g_{\text{moon}} = 1.67 \text{ N/kg}$, $g_{\text{mars}} = 3.69 \text{ N/kg}$, $g_{\text{deep space}} = 0$)

A person has a mass of 60 Kg.

- What is his mass on the Earth?
- What is his weight on the Earth?
- What is his mass on the Moon?
- What is his weight on the Moon?
- What is his mass in Deep Space ?
- What is his weight in Deep Space?
- What is his mass on Mars?
- What is his weight on Mars?

4. A large mass is suspended from a string. There is another string hanging below the mass that you can pull.

- How would you pull the bottom string so that only it breaks? Why?
- How would you pull the bottom string so that only the top string breaks? Why?