202: Principles of electrical science  
**Worksheet 14: Basic mechanics – mass and weight**

**Answer guide**

1. Calculate the weight of a body of 50kg when subjected to the earth’s gravity of 9.81m/s2.

490.5N

1. Calculate the weight of a body of 50kg when subjected to the moon’s gravity of 1.622m/s2.

81.1N

1. Calculate the mass of a body having a weight of 735.75N when subjected to the earth’s gravity of 9.81m/s2.

75kg

1. Calculate the mass of a body having a weight of 300N when subjected to the moon’s gravity of 1.622m/s2.

185kg