

## Weight, Mass and Gravity Practice

Use the following formula to solve for weight:

$$\text{Weight (W)} = \text{Mass (m)} \times \text{gravity (g)} \quad W = mg$$

**Mass** is measured in kilograms (kg)

**Gravity on earth** is a constant:  $9.8 \text{ m/s}^2$

**Weight** is measured in Newton's ( $1 \text{ N} = 1 \text{ kg} \times \text{m/s}^2$ )

Answer the following questions – show ALL WORK and UNITS

1. Define Mass – **the amount of stuff (atoms) that makes up an object**

2. Define Weight – **the force of gravity on an object**

3. Describe what will happen (if anything) to mass and weight when you go to the moon.

**The mass will remain the same. The weight will decrease because the moon is less massive than the Earth.**

a. Why would this happen?

**The force due to gravity on the moon is less because the moon is less massive than the earth and thus has a smaller gravitational force.**

4. Find the weight of a 60 kg astronaut on earth

$$w = mg$$

$$w = ? \text{ N}$$

$$m = 60 \text{ kg}$$

$$g = 9.8 \text{ m/s}^2$$

$$w = 60 \text{ kg} \times 9.8 \text{ m/s}^2$$

$$w = 588 \text{ N}$$

5. Find the weight of the same object from #4 on a planet where the gravitational attraction has been reduced to 1/10 of the earth's pull. Show all work.

**First we need to find 1/10 of the acceleration due to gravity on the earth.**

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