

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 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.

Mass And Weight Worksheet Answer Key

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Mass And Weight Worksheet Answer Key:

Mass And Weight Worksheet Answer Key Book Review: Unveiling the Power of Words

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