

Equation 1

1. Write down the equation that links gravitational field strength, weight and mass.

2. Calculate the weight (N) for the following:

Show all of your workings

- | | |
|------------------|---|
| a. mass = 15 kg | gravitational field strength = 9.8 N/kg |
| b. mass = 4.3 kg | gravitational field strength = 9.8 N/kg |
| c. mass = 70 kg | gravitational field strength = 9.8 N/kg |
| d. mass = 26 kg | gravitational field strength = 1.6 N/kg |
| e. mass = 70 kg | gravitational field strength = 1.6 N/kg |

3. Calculate the mass (kg) for the following:

Show all of your workings

- | | |
|--------------------|---|
| a. weight = 150 N | gravitational field strength = 9.8 N/kg |
| b. weight = 12 N | gravitational field strength = 9.8 N/kg |
| c. weight = 8000 N | gravitational field strength = 9.8 N/kg |
| d. weight = 9.6 N | gravitational field strength = 1.6 N/kg |
| e. weight = 1.0 N | gravitational field strength = 1.6 N/kg |

4. Calculate the gravitational field strength (N/kg) for the following:

Show all of your workings

- | | |
|------------------|-----------------|
| a. mass = 60 kg | weight = 106 N |
| b. mass = 60 kg | weight = 222 N |
| c. mass = 150 kg | weight = 240 N |
| d. mass = 26 kg | weight = 520 N |
| e. mass = 4.4 kg | weight = 43.1 N |

5. Work out the answers to the following questions. Some will require you to convert the units.

Show all of your workings

- a. Calculate the weight of an object that has a mass of 65 kg on Earth, where $g = 9.8 \text{ N/kg}$.
- b. Calculate the weight of an object that has a mass of 65 kg on the Moon, where $g = 1.6 \text{ N/kg}$.
- c. A rocket on Mars, where $g = 3.7 \text{ N/kg}$, has a weight of 740000 N. Calculate its mass.
- d. An astronaut of mass 95 kg lands on a large planet. On the surface he weighs 1400 N. What is the gravitational field strength on this planet?
- e. An apple has a weight of 1.4 N on Earth, where $g = 9.8 \text{ N/kg}$. What is its mass? Give your answer in grams.

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Victor M. Corman



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