

## Equation 1

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

- 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 |

- 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 |

- 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 |

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

*Show all of your workings*

- Calculate the weight of an object that has a mass of 65 kg on Earth, where  $g = 9.8 \text{ N/kg}$ .
- Calculate the weight of an object that has a mass of 65 kg on the Moon, where  $g = 1.6 \text{ N/kg}$ .
- A rocket on Mars, where  $g = 3.7 \text{ N/kg}$ , has a weight of 740000 N. Calculate its mass.
- 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?
- 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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**Jin-Ying Zhang**



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