

Gravity

Fill in the chart with the following sentences:

Only noticeable
with very large masses

Mass x Gravity

Stronger on the Earth

It's a force

non-contact force

Measured in
Newtons (N)

Measured in
kilograms (kg)

the amount of matter
of an object

the larger it is,
the stronger the pull

Mass	Weight	Gravity
		

Choose the correct option:

a) Weight is a force measured in...

- ☐ kilograms
- ☐ pounds
- ☐ newtons

d) When an object isn't moving it means...

- ☐ The forces acting on it are balanced.
- ☐ There are no forces acting on it.
- ☐ Gravity is making it still.

b) Which statement is TRUE?

- ☐ Gravity only acts through air.
- ☐ Gravity acts towards the centre of the Earth.
- ☐ Gravity doesn't act on a flying aeroplane.

e) Where is your mass more?

- ☐ On the Moon.
- ☐ On Earth.
- ☐ It's the same on the Moon and on Earth.

c) Which of these is not a force?

- ☐ weight
- ☐ upthrust
- ☐ mass

f) What is the formula for calculating weight?

- ☐ mass + gravity = weight
- ☐ mass x gravity = weight
- ☐ mass x 1.6 = weight

Write the formula for weight:

$$\text{Weight} = \boxed{} \times \boxed{}$$

Now use the formula to solve the problem:

John's mass is 95 kg. Jupiter's gravity is 25N, Venus' is 9N and Neptune's 11N.

Calculate the difference of John's weight comparing all three planets.

He weighs more on _____ than on _____ and _____.

He weighs less on _____ than on _____ and _____.