

SMART EXAM RESOURCES
CAMBRIDGE PRIMARY STAGE 6 PHYSICS
TOPIC: MASS AND WEIGHT

1 Which scientist **first** explained how gravity works?

Tick (✓) the correct scientist.

Albert Einstein

Galileo Galilei

Isaac Newton

Robert Hooke

[1]

MARK SCHEME:

| Mark | Answer | Further Information |
|------|--|------------------------------|
| 1 | Albert Einstein <input type="checkbox"/> | more than one tick = 0 marks |
| | Galileo Galilei <input type="checkbox"/> | |
| | Isaac Newton <input checked="" type="checkbox"/> | |
| | Robert Hooke <input type="checkbox"/> | |

2 Lily wants to measure her mass.

She stands on the scales.



she puts her hands down



she puts her hands up

Tick (✓) the correct answer.

Lily's mass is **greatest** when her hands are up.

Lily's mass is **less** when her hands are up.

Lily's mass is the **same** when her hands are up or down.

[1]

MARK SCHEME:

| Part | Mark | Answer | Further Information |
|------|------|---|---|
| | 1 | Lily's mass is greatest when her hands are up. <input type="checkbox"/> Lily's mass is less when her hands are up. <input type="checkbox"/> Lily's mass is the same when her hands are up or down. <input checked="" type="checkbox"/> | more than one answer ticked = 0 marks Accept any indication of the correct answer |

3 Tick (✓) the correct answer.

Which property of an object is a consequence of the effect of a gravitational field acting on it?

density

mass

volume

weight

[1]

MARK SCHEME:

Weight - ticked

smart exam resources

4 A student is sitting on a chair as shown in Fig. 3.1.

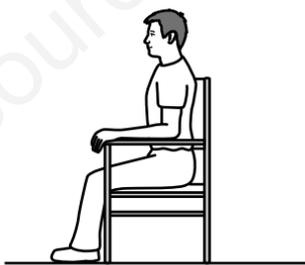


Fig. 3.1

(a) (i) Estimate the mass of the student. [1]

(ii) Which statement is correct for the mass of the chair on the Moon and the mass of the chair on the Earth?

Tick the box next to the correct statement.

The mass of the chair is greater on the Moon.

The mass of the chair is less on the Moon but not zero.

The mass of the chair is the same on the Moon.

The mass of the chair is zero on the Moon.

[1]

MARK SCHEME:

- (a) (i) any answer in range 40 to 100 kg OR equivalent in g B1
- (ii) mass of chair is the same on the moon B1