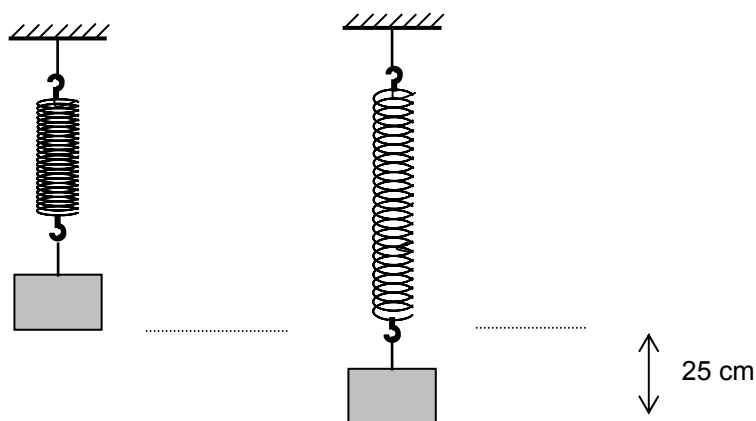


13

An astronaut carries out an experiment.

Before leaving Earth, he hangs a small box from a spring. It stretches the spring by 25 centimetres.



He then takes the spring and the box to the Moon, and repeats the experiment.

(a) How much will the spring stretch on the Moon?

Tick ONE box (✓)

- More than 25 centimetres.
- Exactly 25 centimetres again.
- Less than 25 centimetres.
- Zero - no stretch at all.

(b) How would you explain this?

Tick ONE box (✓)

- The box is now higher above the ground, so gravity pulls it down harder.
- The Moon is smaller than the Earth, so gravity is weaker there.
- There is no gravity on the moon, because it has no atmosphere.
- The weight of an object is always the same.