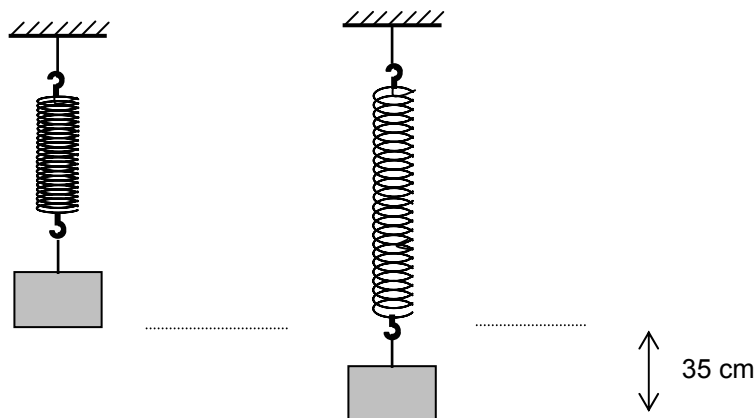


Pam is in a lab on the ground floor of the school. She hangs a small box on a spring. It stretches the spring by 35 centimetres.



She then takes the spring and box up to the top of a mountain, and repeats the experiment.

(a) How much will the spring stretch now?

Tick *ONE* box (✓)

- More than 35 centimetres.
- Exactly 35 centimetres again.
- Less than 35 centimetres.

(b) How would you explain this?

Tick *ONE* box (✓)

- The box is now higher above the ground, so gravity pulls it down harder.
- The box is further from the centre of the Earth, so the gravity force is less.
- The box is further from the centre of the Earth, so the gravity force is less, but the change is much too small to see.
- The weight of an object is always the same, so the spring stretches by exactly the same amount.