5. During an experiment a student inside a lift stands on a newton balance.

not to scale

lift

1.2 m s^{-2}
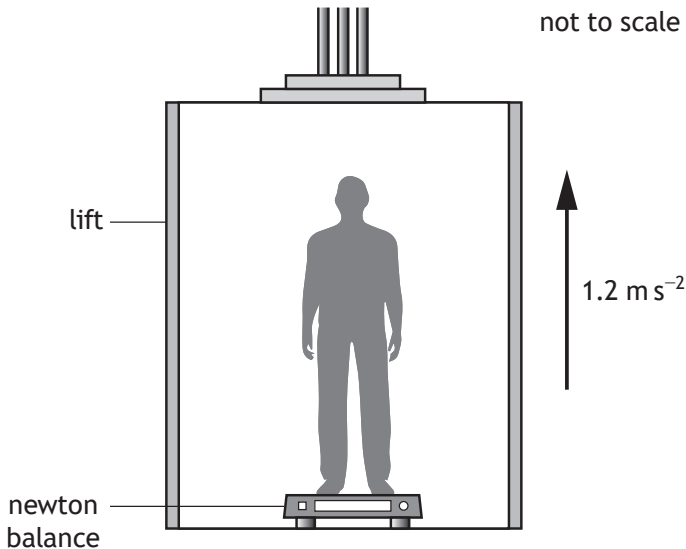
newton
balance

The mass of the student is 50.0 kg.

The lift accelerates upwards at 1.2 m s^{-2}.

The reading on the newton balance is:

A   60 N

B   430 N

C   490 N

D   550 N

E   590 N.