1 A 0.10 kg mass is taken to Mars and then weighed on a spring balance and on a lever balance. The acceleration due to gravity on Mars is 38% of its value on Earth.

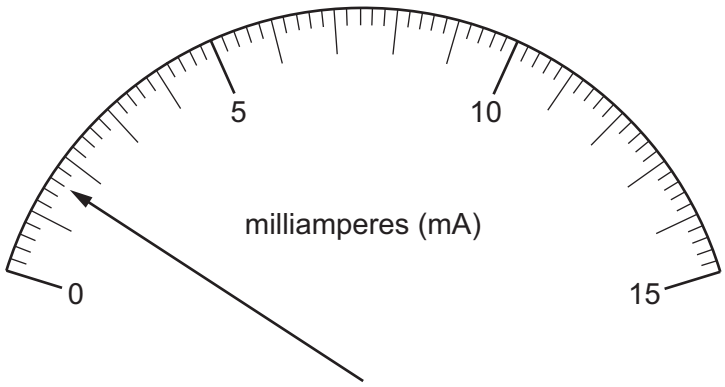
What are the readings on the two balances on Mars? (Assume that on Earth $g = 10\,m\,s^{-2}$.)

	spring balance / N	lever balance / kg
A	0.38	0.038
B	0.38	0.10
C	1.0	0.038
D	1.0	0.10

2 What is equivalent to the unit of electric field strength?

A $J\,C\,m^{-1}$ **B** $N\,s\,A^{-1}$ **C** $kg\,m\,s^{-3}\,A^{-1}$ **D** $kg\,m^{3}\,s^{-3}\,A^{-1}$

3 The diagram shows the reading on an analogue ammeter.



Which digital ammeter reading is the same as the reading on the analogue ammeter?

	display units	display reading
A	μA	1600
B	μA	160
C	mA	16.0
D	A	1.60

Space for working