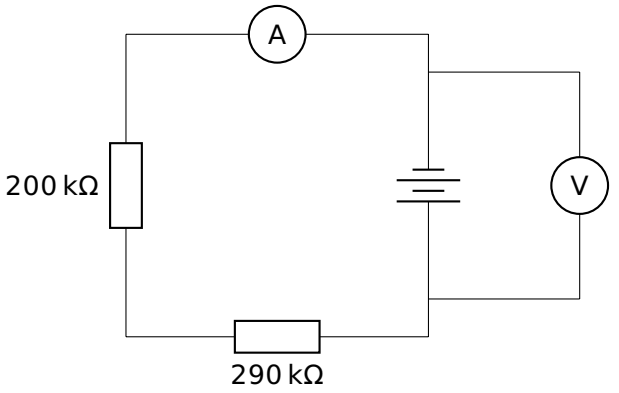
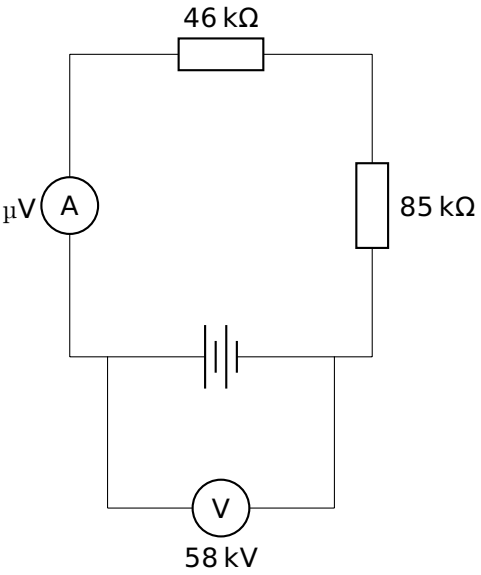
Calculate the current that would be read on the ammeter in each of the following circuits;

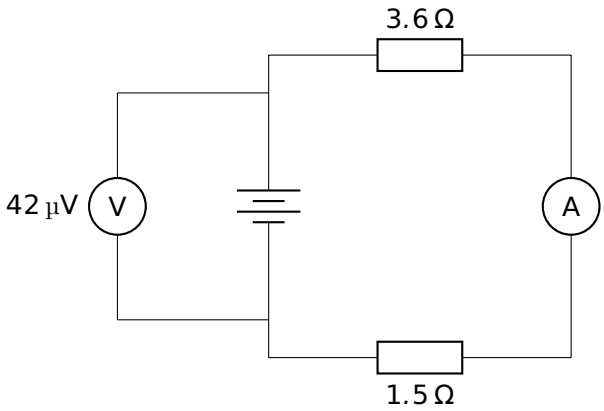
1)



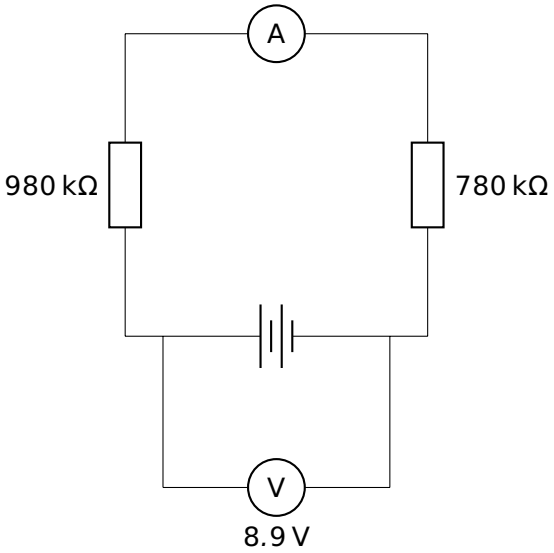
2)



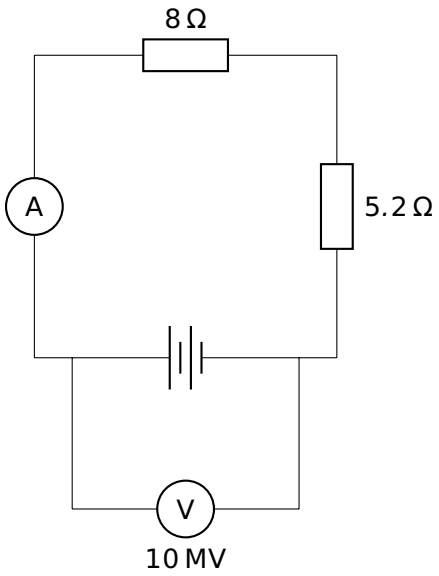
3)



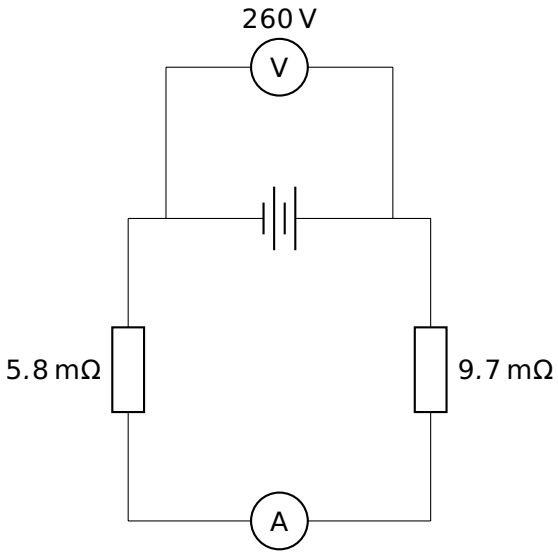
4)



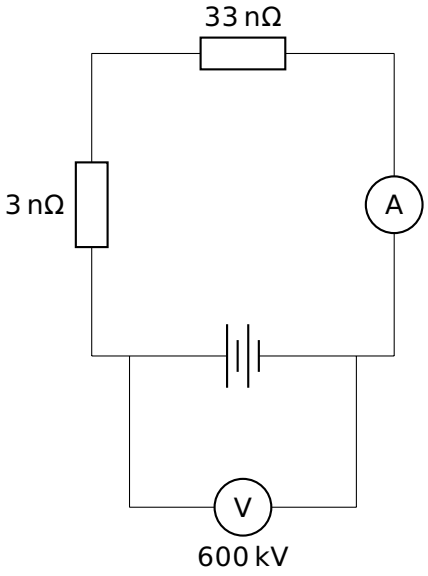
5)


8 Ω
A
5.2 Ω
V
10 MV

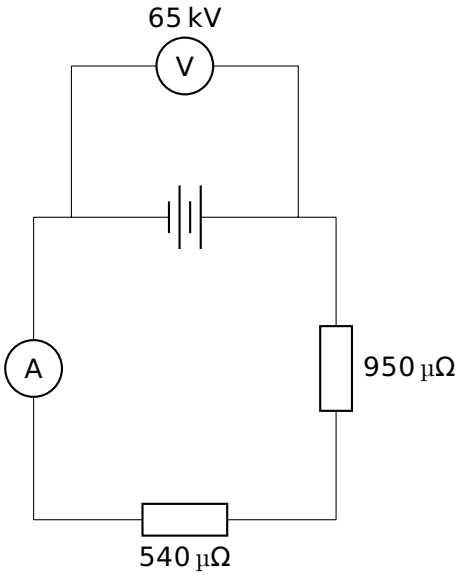
6)


260 V
V
5.8 mΩ
9.7 mΩ
A

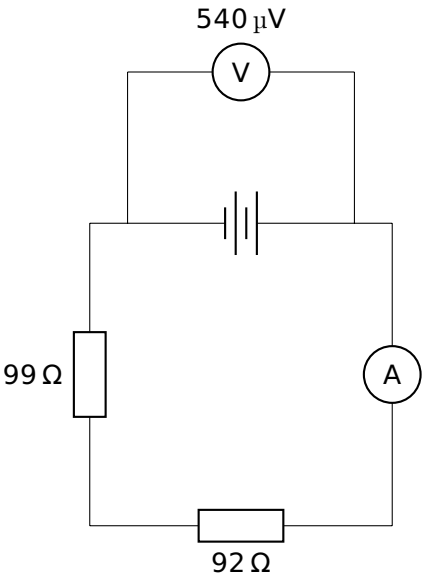
7)


33 nΩ
3 nΩ
A
V
600 kV

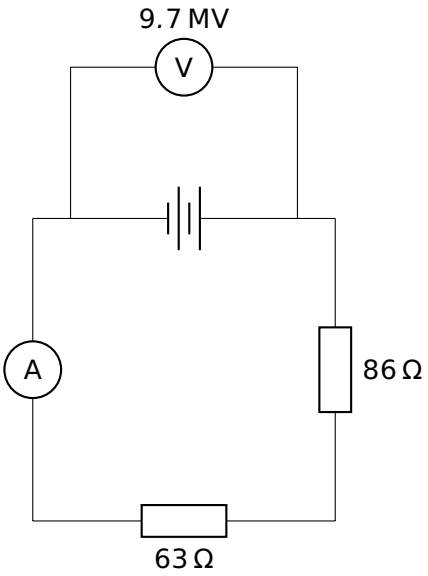
8)


65 kV
V
A
950 µΩ
540 µΩ

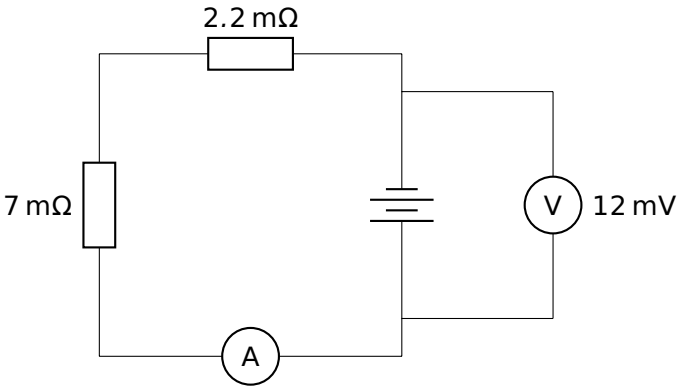
9)


540 µV
V
99 Ω
A
92 Ω

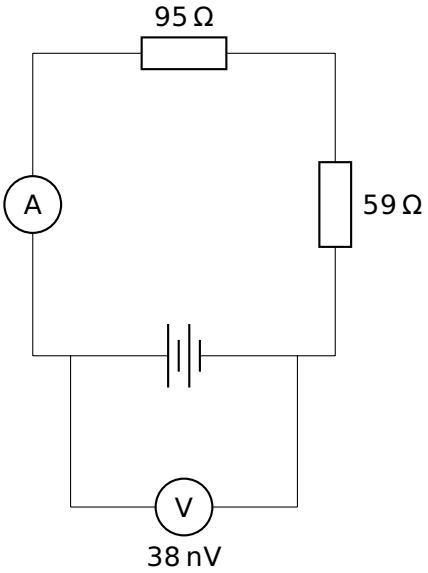
10)


9.7 MV
V
A
86 Ω
63 Ω

11)


2.2 mΩ
7 mΩ
V
12 mV
A

12)


95 Ω
A
59 Ω
V
38 nV

Answers

1) $I = 1.2\,\text{nA}$
2) $I = 440\,\text{mA}$
3) $I = 8.2\,\mu\text{A}$
4) $I = 5.1\,\mu\text{A}$
5) $I = 760\,\text{kA}$
6) $I = 17\,\text{kA}$
7) $I = 17\,\text{TA}$
8) $I = 44\,\text{MA}$
9) $I = 2.8\,\mu\text{A}$
10) $I = 65\,\text{kA}$
11) $I = 1.3\,\text{A}$
12) $I = 250\,\text{pA}$