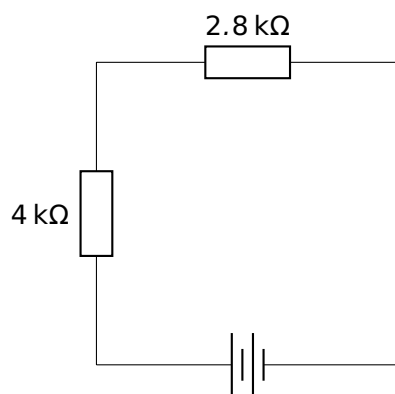
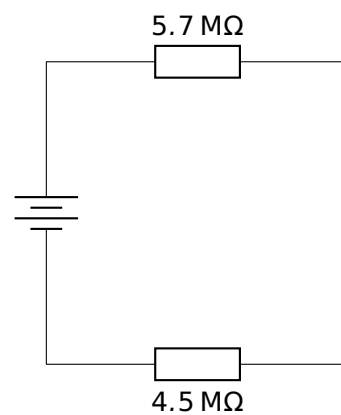


Calculate the total resistance in each of the following circuits;

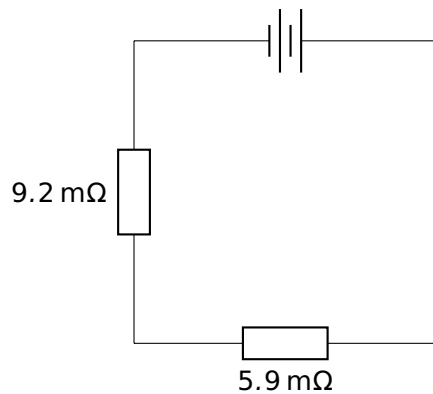
1)



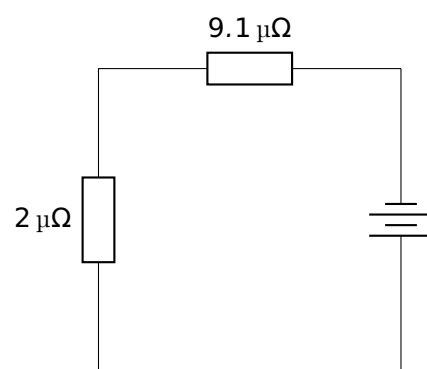
2)



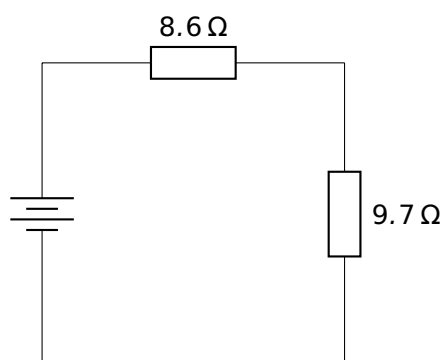
3)



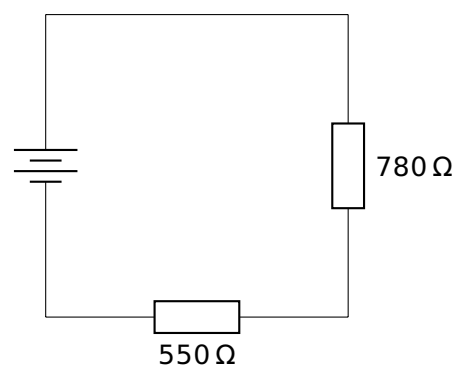
4)



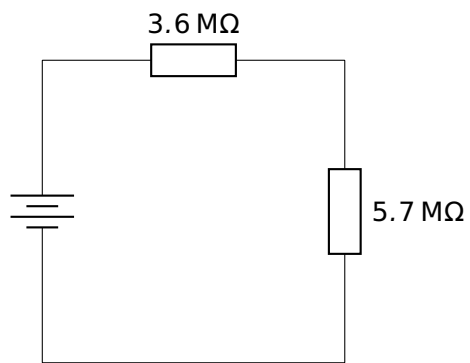
5)



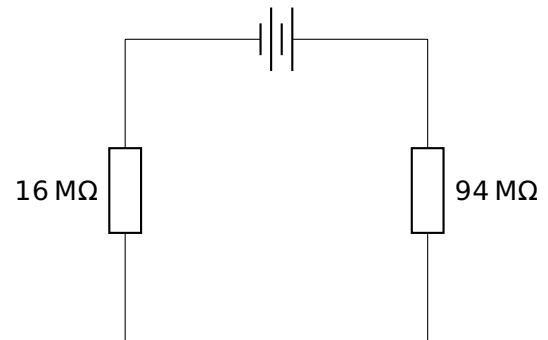
6)



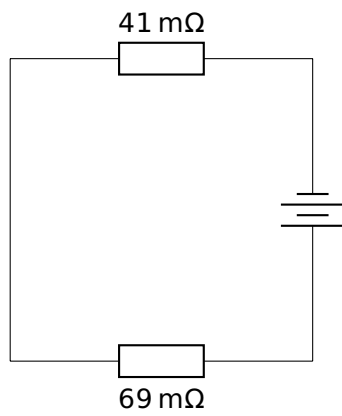
7)



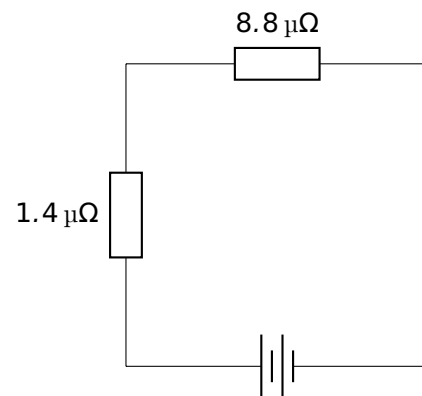
8)



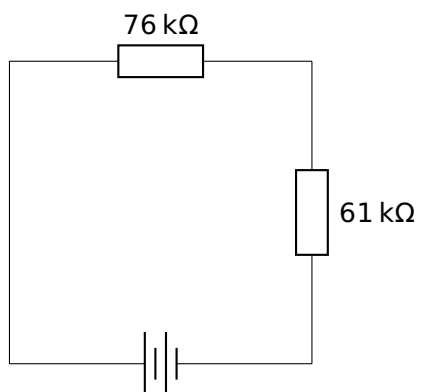
9)



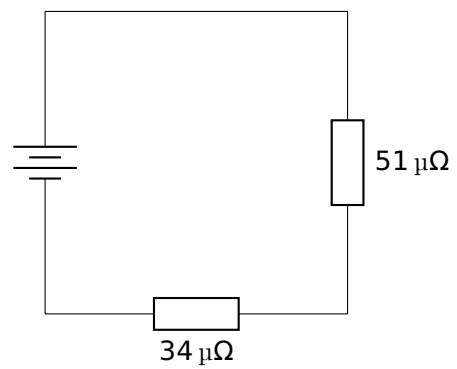
10)



11)



12)



Answers

- 1) $R = 6.8 \text{ k}\Omega$
- 2) $R = 10 \text{ M}\Omega$
- 3) $R = 15 \text{ m}\Omega$
- 4) $R = 11 \text{ }\mu\Omega$
- 5) $R = 18 \text{ }\Omega$
- 6) $R = 1.3 \text{ k}\Omega$
- 7) $R = 9.3 \text{ M}\Omega$
- 8) $R = 110 \text{ M}\Omega$
- 9) $R = 110 \text{ m}\Omega$
- 10) $R = 10 \text{ }\mu\Omega$
- 11) $R = 140 \text{ k}\Omega$
- 12) $R = 85 \text{ }\mu\Omega$