

- 34 When four identical lamps P, Q, R and S are connected as shown in diagram 1, they have normal brightness.

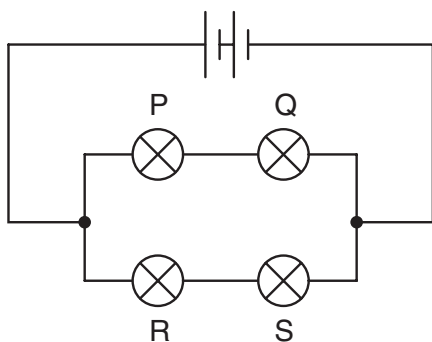


diagram 1

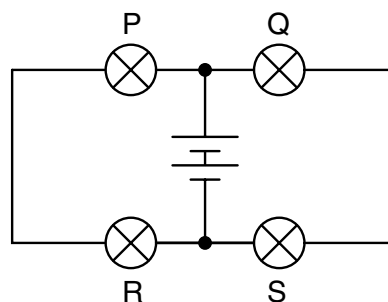
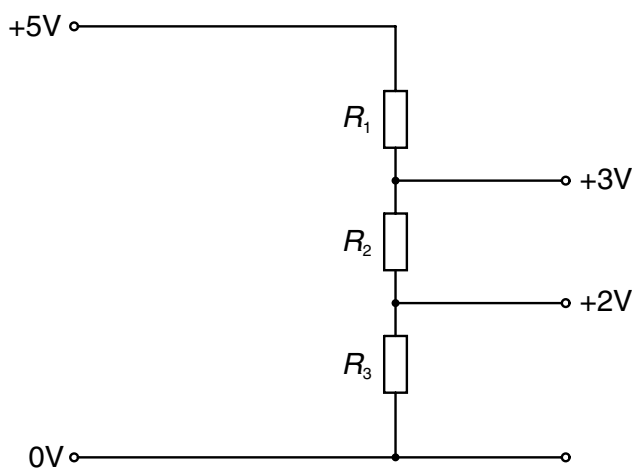


diagram 2

When the four lamps are connected as shown in diagram 2, which statement is correct?

- A The lamps do not light.
 - B The lamps are less bright than normal.
 - C The lamps have normal brightness.
 - D The lamps are brighter than normal.
- 35 A potential divider is used to give outputs of 2 V and 3 V from a 5 V source, as shown.



What are possible values for the resistances R_1 , R_2 and R_3 ?

	$R_1/\text{k}\Omega$	$R_2/\text{k}\Omega$	$R_3/\text{k}\Omega$
A	2	1	5
B	3	2	2
C	4	2	4
D	4	6	10