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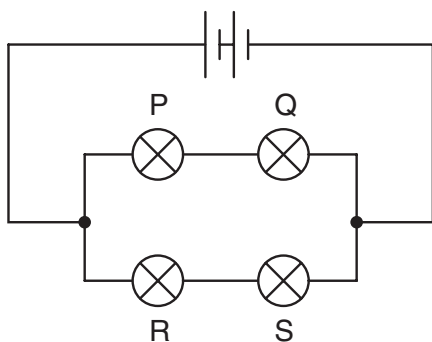

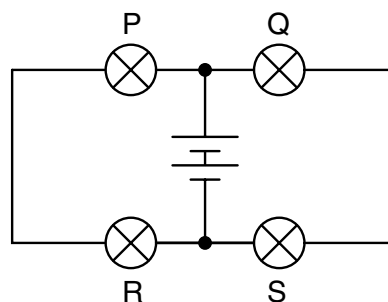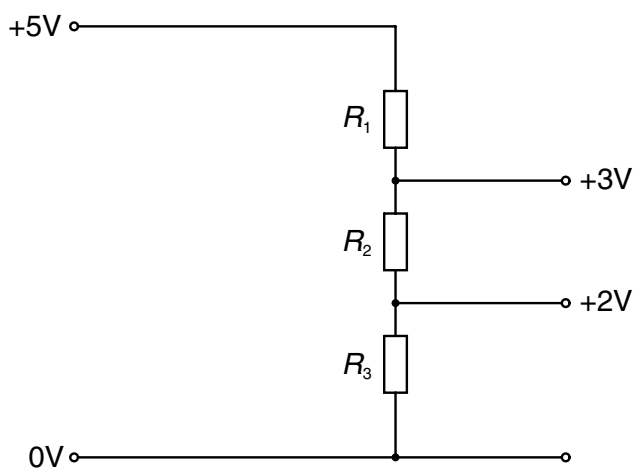diagram 1   diagram 2

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/kΩ	R_2/kΩ	R_3/kΩ
A	2	1	5
B	3	2	2
C	4	2	4
D	4	6	10