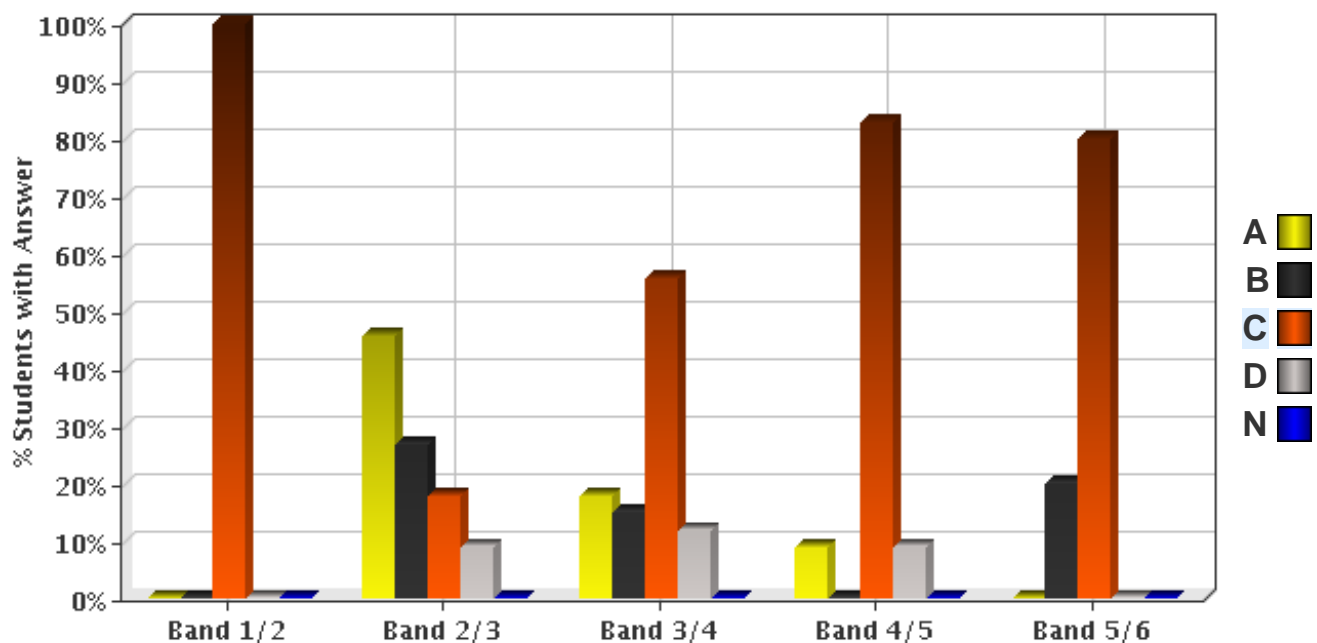# Question 11

A circuit consists of two lamps connected in series. It consumes a total of 10 watts.

If one lamp becomes open circuit, what will happen to the power consumption of the circuit?

A ✗ It will halve.

B ✗ It will double.

C ✓ It will decrease to zero.

D ✗ It will remain unchanged.

HSC Statistics on this Question:

	Band 1/2	Band 2/3	Band 3/4	Band 4/5	Band 5/6
A	0%	46%	18%	9%	0%
B	0%	27%	15%	0%	20%
C	100%	18%	56%	83%	80%
D	0%	9%	12%	9%	0%
N	0%	0%	0%	0%	0%

The table and graph show, for the groups of students whose marks in the examination corresponded to the borderline between two bands, what percentages of each group selected the responses A, B, C and D. N is used to identify: No valid response.

Note that apparent anomalies in the table and graph, such as 0% or 100% of students choosing a particular response, can occur when there are no students (or very few students) who scored the particular examination mark associated with that borderline.