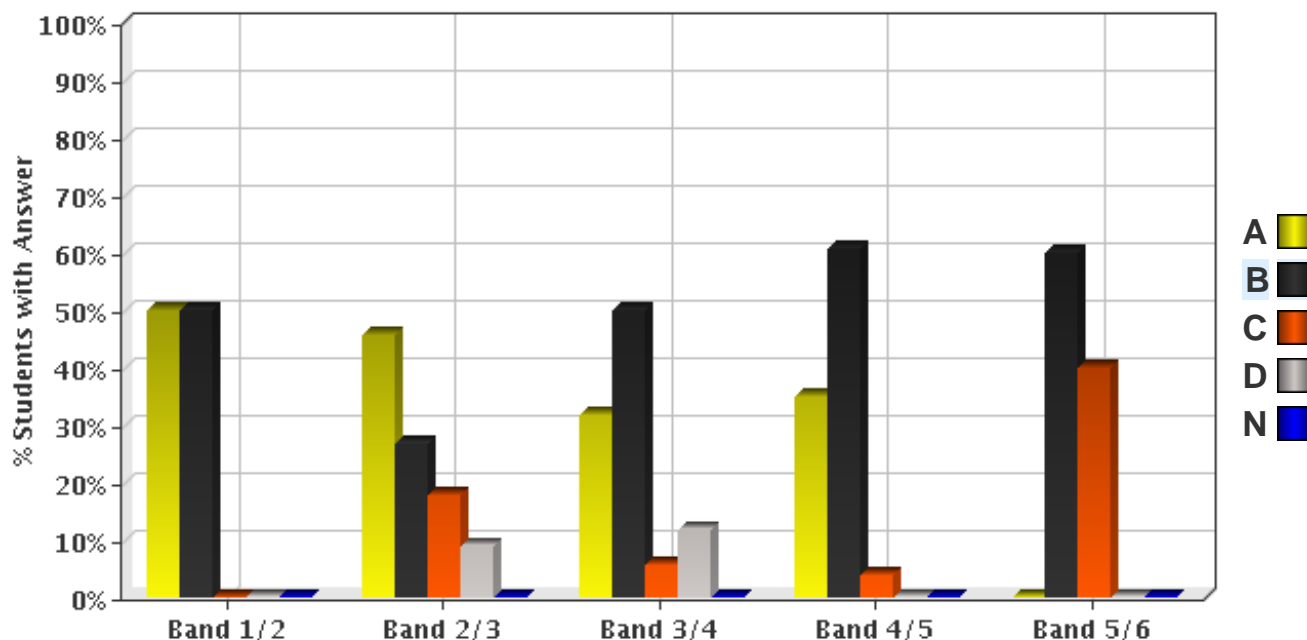# Question 9

Three capacitors of equal value are connected in parallel and charged.

What will the charge on each capacitor be?

A ✗ Equal to the total charge
B ✔ One third of the total charge
C ✗ Three times the total charge
D ✗ Independent of the total charge

HSC Statistics on this Question:

	Band 1/2	Band 2/3	Band 3/4	Band 4/5	Band 5/6
A	50%	46%	32%	35%	0%
B	50%	27%	50%	61%	60%
C	0%	18%	6%	4%	40%
D	0%	9%	12%	0%	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.