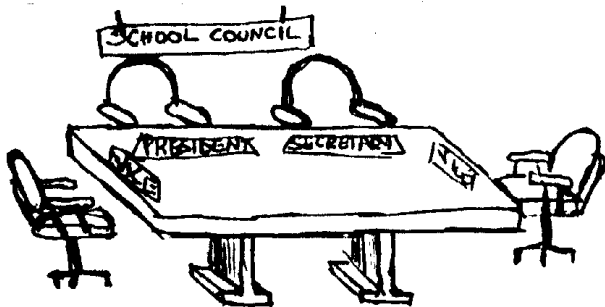


Random Students

A school student council is to be formed consisting of 10 students selected from Year 11 and Year 12 classes. There are 120 Year 11 and 80 Year 12 students.

- (a) What is the probability of a student being selected in each of the following cases:
- (i) each student has the same chance of being selected,
 - (ii) the same number of Yr 11 and Yr 12 students are to be selected,
 - (iii) the numbers selected in Yrs 11 and 12 are to be in proportion to the numbers in the classes.
- (b) How would you select the students at random?
- (c) From the student council there is to be a President, two Vice-Presidents and a Secretary. Discuss the probability of any student being chosen for these positions.



[See module 4A for information on probability]