

## Data - Stratified Sampling

	<b>Male</b>	<b>Female</b>
<b>First year</b>	399	602
<b>Second year</b>	252	198

The table gives information about the numbers of students in the two years of a college course.

Anna wants to interview some of these students.

She takes a random sample of 70 students stratified by year and by gender.

Work out the number of students in the sample who are male and in the first year.

*(3 marks)*

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Work out the number of students in the sample who are male and in the first year.

$$\text{Total students} = 399 + 602 + 252 + 198 = 1451$$

$$\text{Sampling fraction} = \frac{70}{1451}$$

Number of first year males selected

$$= 399 \times \frac{70}{1451} = 19.25 \text{ (round to 19)}$$

Sample should have 19 first year males

(3 marks)