

## Data - Stratified Sampling

Q1

The table shows information about Chris' collection of 662 stamps.

Country	France	Germany	Spain	Italy	Total
Number of stamps	245	184	138	95	662

Chris takes a sample of 50 stamps stratified by country.

(c) Work out the number of stamps from Italy in this sample.

.....  
(2)

Q2

The table below gives some information about some students in a school.

Year group	Boys	Girls	Total
Year 12	126	94	220
Year 13	77	85	162
<b>Total</b>	203	179	382

Andrew is going to carry out a survey of these students.

He uses a sample of 50 students, stratified by year group and gender.

Work out the number of Year 13 girls that should be in his sample.

.....  
(Total 2 marks)

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Number of stamps	245	184	138	95	662

Chris takes a sample of 50 stamps stratified by country.

(c) Work out the number of stamps from Italy in this sample.

$$\text{Sampling Fraction} = \frac{50}{662}$$

$$\text{Italy } 95 \times \frac{50}{662} = 7.175$$

Round to 7

.....7.....  
(2)

Q2

The table below gives some information about some students in a school.

Year group	Boys	Girls	Total
Year 12	126	94	220
Year 13	77	85	162
<b>Total</b>	203	179	382

Andrew is going to carry out a survey of these students.

He uses a sample of 50 students, stratified by year group and gender.

Work out the number of Year 13 girls that should be in his sample.

$$\text{Sampling Fraction} = \frac{50}{382}$$

$$\text{Year 13 Girls } 85 \times \frac{50}{382} = 11.126$$

Round to 11

.....11.....

(Total 2 marks)