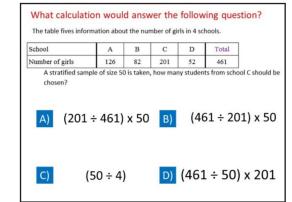


## **GCSE Maths Takeaway 110 - Stratified Sampling**

Name:	Date:		
Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 2 (Calc) – Question 23a  Which of the following needs to be true for a sample to be random?  A There are lots of items to choose from  B Each item has an equal chance of being selected  C Every item is different	Correct Answer: A B C D Explanation:		
D Once selected, you don't put any item back			
Follow up Questions for Edexcel GCSE—June 2014 – Higher – Paper 2 (Calc) – Question 23b Here are the ages of people in a small village:  Age (years) 0-12 13-24 25-40 41-60 61+  Number of people 35 58 125 103 79  A stratified sample of 70 people is to be taken How many should be taken from the 13-24 group?  Which of the following calculations would correctly work out the answer?  A $\frac{58}{70} \times 400$ B $\frac{58}{70}$ C $\frac{400}{70} \times 58$ D $\frac{70}{400} \times 58$	Correct Answer: A B C D Explanation:		
What calculation would answer the following question?  In a teenage professional football club of 340 players, 18 are aged between 11 and 12. If a stratified sample of size 100 were to be carried out, how many 11-12 year olds should be included in the sample?	Correct Answer: A B C D Explanation:		
A) (18 ÷ 100) B) (18 ÷ 340) x 11.5			
C) (18 ÷ 100) x 340 D) (18 ÷ 340) x 100			



Year	7	8	9	10	11	TOTAL
No of students	100	120	115	130	126	591
A)	1	50 ÷ 5	i	B)	591	÷ 126

Correct Answer: A B C D
Explanation: