



Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

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Video 281



1. The table shows information about the inhabitants of a village.



Age	Population Size
0 - 20	693
21 - 40	1203
41 - 60	802
Over 60	405

Bernard is going to carry out a survey about the local library. He wants to find out how often people have been to the library in the last year.

Bernard decides to take a stratified sample.

(a) Explain why it is appropriate to take a stratified sample.

(1)

Bernard takes a stratified sample of 100.

(b) Calculate the number of each age group that Bernard should choose.

0 - 20	
21 - 40	
41 - 60	
Over 60	(3)

2. There are 180 employees in a school.



The table shows the number of each type of employee in the school.

Teachers	Teaching Assistants	Admin	Other
94	16	41	29

(a) A stratified sample of size 50 is required.

Calculate the number of each type of employee that should be chosen.

Teachers Teaching Assistants Admin Other

(b) Describe a method to obtain a stratified sample of size 50 from the employees in the school.

(2)



The table shows the home countries of rugby referees on a course.

Ireland	Wales	Scotland
8	28	44

(a) David wants to take a stratified sample of size 10 from the referees.

Calculate the number of referees from each country that David should select.

Ireland	 	
Wales	 	
Scotland	 	
		(3)

4. There are 300 students in years 7, 8, 9 and 10 in a school.

Year 7	Year 8	Year 9	Year 10
72	108	66	54

A stratified sample of 50 is planned.

Calculate the number of people that should be sampled from each year group.

	(3)
Year 10	
Year 9	
Year 8	
Year 7	





He is asked to test a sample of 40 chocolates stratified by type of chocolate. The table shows the number of each type of chocolate in the shop.

Туре	Milk	Dark	White
Number	600	220	130

Calculate the number of dark chocolates required for his stratified sample.

(3)



There are 300 passengers on a flight. A stratified sample is taken.

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The table shows some information.

Туре	Adult Male	Adult Female	Children
Number on flight		108	60
Number in sample		18	

Complete the table.



A stratified sample of member is taken, by age group.

The table shows some information.

	Junior	18 - 39	40 - 59	Senior
Members		100	120	
Number in sample	15	20		

Complete the table.

8. A teacher decides to carry out a survey about school dinners.She is going to ask students in year 4, year 5 and year 6.

The numbers in the school are shown.

Year 4	Year 5	Year 6
100	120	135

A stratified sample is taken. 40 year 4 students are selected.

Work out the number of year 6 students selected.