

Sampling

Week 6

Lesson Time : 15 - 20 Minutes

Course : Foundation or Higher

Grade : 5

Back to Basics

Core

Let's Do It!

GCSE Revision Video 30

- **Prior Checklist:** A pack of A5/A6 revision cards.

A pen.

- **Our Video Structure:**

Back to Basics: Quick re-cap.

Core: *Create* your own revision cards with exam style questions.

Let's Do It! : *Apply* your revision cards to another set of exam style questions.

Instructions: **Print out** this worksheet and watch the revision video simultaneously.

Pause and Play the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.

Create your OWN revision cards when prompted on the worksheet(Back to Basic and Core sections).

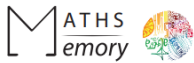
Apply your OWN revision cards (Let's Do It! section).

Self Assess yourself (Out of 10) on your revision planner after you have completed the revision video.

WATCH this revision video and **MANY** others on our **FULL** courses at www.mathsmemory.co.uk

Let's get started and create our Master revision card with this suggested template.

Back to Basics- Starter questions to warm you up



Back to Basics

Topic: Sampling

Question 1

The table below shows information about the hobbies of a sample of students in a year 11 school.

Hobby	Frequency
Sports	14
Gym	9
Musical instrument	6
Activity Club	11

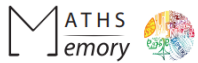
a) What is the 'sample size' ?

b) What is the probability of a student picking a Musical instrument as their favourite instrument?

c) Kym wants to conduct a survey for the ALL year 11 classes in the UK, based on the above table. Why is picking a 'sample' a good representative of this and what assumptions have you made.



Core- Create your revision cards with these exam style questions



Core 1

Topic: Sampling

Question 1

The table below shows information about the favourite subjects of a year 11 form class.

Subject	Frequency
Maths	11
English	7
Science	8
Geography	4

There are 1200 pupils in the school.

a) Lily wants to know how many students favourite subject is Maths, within the whole school.
Work this out.

b) State any assumptions you have made and how this may affect your answer.

Grade

5 (3 Marks)

Let's get our revision card and create Section A. Look at video for guidance.



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Question 2

The table below shows information about the type of holidays students prefer.

		Type			
		Adventure	Beach	Historical Attractions	Tropical
Gender	Male	193	172	26	48
	Female	90	251	39	81

a) Why is 'stratified sampling' justified as a preferred type of sampling method from this table.

b) Alex carries out a survey of these students. He uses a sample of 30 students stratified by gender and by year group. Calculate the number of males who would prefer beach holidays in his sample.

c) How would increasing the sample size affect the accuracy to part (b)?

Grade

5 (4 Marks)
Calculator

Let's get our revision card and create Section B. Look at video for guidance



Let's Do It!- Apply your revision cards to another set of exam style questions



Let's Do It!

Topic: Sampling

Question 1

50 students were asked their favorite school lunch meal . The table represents this information.

Subject	Frequency
Fish and Chips	14
Pie and mash	8
Roast	17
Pizza	11

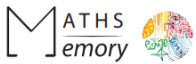
There are 800 pupils in the school.

a) What does ' population ' mean?

b) Medhi wants to know how many students preferred a roast lunch from the whole school.
Work this out.

Grade

5 (3 Marks)



Let's Do It!

Topic: Sampling

Question 2

A primary school has 600 students. The table comprises of both year groups (7 - 11) and genders

		Year				
		7	8	9	10	11
Gender	Male	55	64	58	72	49
	Female	65	60	63	61	53

a) David takes a stratified sample of 40 students
Work out the number of female year 9 students from her sample.

b) State any assumptions you have made and how this may affect your answer.

Grade

5 (3 Marks)
Calculator

Congratulations. You have completed this topic.

Now go back to your revision planner and rate yourself out of 10.

