



ST9 Estimation and quality assurance

Personal learning checklist | 1 of 2

Edexcel GCSE Statistics 1ST0 | Both papers · Foundation and Higher

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

Higher statements are labelled. Show full workings, construct graphs and use real sourced data for enquiry tasks.

I can	Red	Amber	Green
Population estimation			
Estimate population proportions, counts and centres from representative sample summaries.	☐	☐	☐
Explain sample-size and replication effects while distinguishing sampling variation from bias.	☐	☐	☐
Evaluate a population estimate's scope and propose improvements to its specific weaknesses.	☐	☐	☐
Higher — capture–recapture			
Higher: apply Petersen capture–recapture with the correct marked, catch and recapture counts.	☐	☐	☐
Higher: evaluate capture–recapture assumptions and the direction of plausible biases.	☐	☐	☐
Higher: explain instability with few or zero recaptures and propose a revised plan.	☐	☐	☐

My next revision priority _____

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I can	Red	Amber	Green
Higher — quality assurance			
Higher: explain why sample means vary less and identify the monitored statistic's SD.	☐	☐	☐
Higher: construct and interpret control charts with warning and action limits.	☐	☐	☐
Higher: select appropriate responses to warning and action signals and distinguish product limits.	☐	☐	☐

My next revision priority _____