K · Statistical sampling

AQA · A-Level · Mathematics · Vocabulary in context

Word	Example
sampling /ˈsæmplɪŋ/	**Sampling** studies part of a population to learn about the whole.
population /ˌpɒpjʊˈleɪʃn/	Define the **population** before deciding whom to include.
census /ˈsensəs/	A **census** asks every member of the population, not just a sample.
sample /ˈsæmpl/	The **sample** contains the people selected for this study.
sampling unit	In a survey of households, each household is one **sampling unit**.
sampling frame /ˈsæmplɪŋ freɪm/	A **sampling frame** lists the units available for selection.
statistic /stəˈtɪstɪk/	A **statistic** is a number worked out from a sample, such as a sample mean.
parameter /pəˈræmɪtə/	In $x = 2t$ and $y = t^2$, t is the **parameter**. $x = 2t$ $y = t^2$ t
simple random sampling	In **simple random sampling**, every member has the same chance of being chosen.
systematic sampling /ˌsɪstəˈmætɪk ˈsæmplɪŋ/	In **systematic sampling**, we choose every tenth name on a list after a random start.
stratified sampling /ˈstrætɪfaɪd ˈsæmplɪŋ/	In **stratified sampling**, each group is sampled in proportion to its size.

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Word	Example
quota sampling /ˈkwəʊtə ˈsæmplɪŋ/	In **quota sampling**, the interviewer asks a fixed number from each group, but chooses who.
opportunity sampling	In **opportunity sampling**, you ask whoever is there, such as people at the gate.
cluster sampling	In **cluster sampling**, you choose a few whole groups at random, such as some classes.
bias /ˈbaɪəs/	**Bias** can distort results even with a large sample.