Statistics 2

Pearson Edexcel · International A-Level · Mathematics · Vocabulary in context

Word	Example
binomial distribution /baɪˈnəʊmɪəl ˌdɪstrɪˈbjuːʃn/	A **binomial distribution** counts the number of heads in 20 coin tosses. 20
Poisson distribution /ˈpɔɪsn ˌdɪstrɪˈbjuːʃn/	The **Poisson distribution** models random events, such as calls per hour.
continuity correction /kɒntɪˈnjuːɪti kəˈrekʃn/	Use a **continuity correction** when you use a normal curve for whole-number data.
probability density function /ˌprɒbəˈbɪlɪti ˈdensɪti ˈfʌŋkʃn/	A **probability density function** describes a continuous random variable.
cumulative distribution function /ˈkjuːmjʊlətɪv ˌdɪstrɪˈbjuːʃn ˈfʌŋkʃn/	A **cumulative distribution function** gives $\mathrm{P}(\mathrm{X} \leq \mathrm{x})$. $\mathrm{P}(\mathrm{X} \leq \mathrm{x})$
median /ˈmiːdiːən/	Put the values in order before you find the **median**.
mode /məʊd/	The **mode** is the most common value.
continuous uniform distribution /kənˈtɪnjuːəs ˈjuːnɪfɔːm ˌdɪstrɪˈbjuːʃn/	In a **continuous uniform distribution**, every value in the range is equally likely.
census /ˈsensəs/	A **census** asks every member of the population, not just a sample.
sample /ˈsæmpl/	A **sample** is a small group taken from a population.

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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.
sampling distribution /ˈsæmplɪŋ ˌdɪstrɪˈbjuːʃn/	The **sampling distribution** shows how a statistic varies from sample to sample.
hypothesis test /haɪˈpɒθəsɪs test/	The **hypothesis test** found no evidence against the 30-minute claim.
null hypothesis /nʌl haɪˈpɒθəsɪs/	The **null hypothesis** specifies the parameter value being tested.
critical region /ˈkrɪtɪkl ˈriːdʒn/	If the test statistic is in the **critical region**, reject the null hypothesis.
significance level /sɪgˈnɪfɪkəns ˈlevl/	Set the **significance level** before looking at the observed result.

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