N · Statistical distributions

AQA · A-Level · Mathematics · Vocabulary in context

Word	Example
statistical distribution /stə'tɪstɪkl ˌdɪstrɪ'bju:ʃn/	A **statistical distribution** describes possible values and their probabilities.
discrete random variable /dɪ'skri:t 'rændəm 'veərɪəbl/	A **discrete random variable** X takes separate values, each with a probability. X
expected value /ek'spektɪd 'vælju:/	The **expected value** of one dice roll is 3.5. 3.5
uniform distribution	When a fair die is rolled, the score follows a discrete **uniform distribution**.
binomial distribution /baɪ'nəʊmɪəl ˌdɪstrɪ'bju:ʃn/	A **binomial distribution** counts the number of heads in 20 coin tosses. 20
trials	A binomial distribution needs a fixed number of independent **trials**, each with the same probability of success.
continuous random variable /kən'tɪnju:əs 'rændəm 'veərɪəbl/	For a **continuous random variable**, probability is an area under a curve.
normal distribution /'nɔ:ml ˌdɪstrɪ'bju:ʃn/	A **normal distribution** has a symmetric bell-shaped density curve.
standard normal distribution	The **standard normal distribution** is Z~N(0,1). Z~N(0,1)
continuity correction /kɒntɪ'nju:ɪti kə'rekʃn/	Use a **continuity correction** when you use a normal curve for whole-number data.

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