Statistics 1

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

Word	Example
histogram /ˈhɪstəgræm/	Draw a **histogram** with the bars touching.
stem and leaf /stem ænd liːf/	A **stem and leaf** diagram shows every value in order.
box plot /bɒks plɒt/	A **box plot** displays the median and quartiles.
outlier /ˈaʊtlaɪə/	Leave out the **outlier** when you draw the line.
median /ˈmiːdiːən/	Put the values in order before you find the **median**.
interquartile range /ˌɪntəˈkwɔːtaɪl reɪndʒ/	Subtract the lower quartile from the upper for the **interquartile range**.
standard deviation /ˈstændəd ˌdiːvɪˈeɪʃn/	A larger **standard deviation** means the values are more spread out.
positively skewed /ˈpɒzɪtɪvli skjuːd/	A **positively skewed** distribution has a long tail to the right.
sample space /ˈsæmpl speɪs/	The **sample space** is the list of all possible outcomes.
independence /ˌɪndɪˈpendəns/	**Independence** means one event does not change the chance of the other.
conditional probability /kənˈdɪʃənl ˌprɒbəˈbɪlɪti/	Find the **conditional probability** using only the chosen group.
correlation coefficient /ˌkɒrɪˈleɪʃn ˌkəʊɪˈfɪʃənt/	The **correlation coefficient** r of a sample estimates the population value ρ. r ρ

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regression line /rɪˈgreʃn laɪn/	The **regression line** is the line of best fit.
discrete random variable /dɪˈskriːt ˈrændəm ˈveərɪəbl/	A **discrete random variable** X takes separate values, each with a probability. X
probability function /ˌprɒbəˈbɪlɪti ˈfʌŋkʃn/	A **probability function** gives the chance of each value.
expectation /ekspɪkˈteɪʃn/	The **expectation** of a fair die's score is 3.5. 3.5
variance /ˈveərɪəns/	The **variance** is the square of the standard deviation.
Normal distribution /ˈnɔːml ˌdɪstrɪˈbjuːʃn/	**Normal distribution** graphs are bell-shaped.

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