Statistics 1

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

Word	Example
histogram /'hɪstəgræm/	Draw a **histogram** with the bars touching.
stem and leaf /stem ænd li:f/	A **stem and leaf** diagram shows every value in order.
box plot /bɒks plɒt/	A **box plot** displays the median and quartiles.
outlier /'aʊtlaɪə/	Leave out the **outlier** when you draw the line.
median /'mi:di:ən/	Put the values in order before you find the **median**.
interquartile range /ˌɪntə'kwɔ:taɪl reɪndʒ/	Subtract the lower quartile from the upper for the **interquartile range**.
standard deviation /'stændəd ˌdi:vɪ'eɪʃn/	A larger **standard deviation** means the values are more spread out.
positively skewed /'pɒzɪtɪvli skju:d/	A **positively skewed** distribution has a long tail to the right.
sample space /'sæmpl speɪs/	The **sample space** is the list of all possible outcomes.
independence /ˌɪndɪ'pendəns/	**Independence** means one event does not change the chance of the other.
conditional probability /kən'dɪʃənl ˌprɒbə'bɪlɪti/	Find the **conditional probability** using only the chosen group.
correlation coefficient /ˌkɒrɪ'leɪʃn ˌkəʊɪ'fɪʃənt/	The **correlation coefficient** r of a sample estimates the population value ρ. r ρ

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regression line /rɪ'greʃn laɪn/	The **regression line** is the line of best fit.
discrete random variable /dɪ'skri:t 'rændəm 'veərɪəbl/	A **discrete random variable** X takes separate values, each with a probability. X
probability function /ˌprɒbə'bɪlɪti 'fʌŋkʃn/	A **probability function** gives the chance of each value.
expectation /ekspɪk'teɪʃn/	The **expectation** of a fair die's score is 3.5. 3.5
variance /'veərɪəns/	The **variance** is the square of the standard deviation.
Normal distribution /'nɔ:ml ˌdɪstrɪ'bju:ʃn/	**Normal distribution** graphs are bell-shaped.