Statistics

IGCSE Mathematics · Vocabulary in context

Word	Example
statistical /stə'tɪstɪkl/	Use **statistical** methods to study the data.
data /'deɪtə/	Collect **data** on how pupils travel to school.
tally table /'tælɪ 'teɪbl/	Use a **tally table** to count results.
two-way table /tuː weɪ 'teɪbl/	A **two-way table** shows counts for two categorical variables.
mean /miːn/	The **mean** is the total divided by the number of values.
median /'miːdiːən/	Put the values in order before you find the **median**.
mode /məʊd/	The **mode** is the most common value.
range /reɪndʒ/	The **range** is the largest value minus the smallest.
frequency /'friːkwənsi/	The **frequency** column counts how often each score appears.
grouped data /gruːpt 'deɪtə/	**Grouped data** is put into classes like 10–20. 10–20
modal class /'məʊdl klæs/	The **modal class** is the group with the most values.
quartile /'kwɔːtaɪl/	The lower **quartile** is a quarter of the way through the data.
interquartile range /ˌɪntə'kwɔːtaɪl reɪndʒ/	Subtract the lower quartile from the upper for the **interquartile range**.

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bar chart /bɑː tʃɑːt/	Use a **bar chart** to compare the numbers of each kind of insect.
pie chart /paɪ tʃɑːt/	A **pie chart** shows parts of a whole.
pictogram /ˈpɪktəgræm/	A **pictogram** uses pictures to show data.
stem-and-leaf diagram /stem ænd liːf ˈdaɪəgræm/	A **stem-and-leaf diagram** shows every value in order.
frequency distribution /ˈfriːkwənsi ˌdɪstrɪˈbjuːʃn/	A **frequency distribution** shows how often each value occurs.
scatter diagram /ˈskætə ˈdaɪəgræm/	A **scatter diagram** shows two variables as points.
correlation /ˌkɒrɪˈleɪʃn/	There is a **correlation** between light and plant height, but that does not prove one causes the other.
positive correlation /ˈpɒzɪtɪv ˌkɒrɪˈleɪʃn/	There is a **positive correlation** between heat and ice cream sales.
negative correlation /ˈnegətɪv ˌkɒrɪˈleɪʃn/	There is a **negative correlation** between price and sales.
zero correlation /ˈzɪərəʊ ˌkɒrɪˈleɪʃn/	**Zero correlation** means no link between the variables.
line of best fit /laɪn ɒv best fɪt/	Draw a **line of best fit** through the points.
cumulative frequency /ˈkjuːmjʊlətɪv ˈfriːkwənsi/	**Cumulative frequency** is a running total.

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Word	Example
percentile /pəˈsentaɪl/	Scoring at the 90th **percentile** means you beat 90% of people. 90th 90%
histogram /ˈhɪstəgræm/	Draw a **histogram** with the bars touching.
frequency density /ˈfriːkwənsi ˈdensɪti/	**Frequency density** is frequency divided by class width.
class width /klæs wɪtθ/	The **class width** of 10–20 is 10. 10–20 10

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