

Statistics

Syllabus tracker [Open it online](#)

Name: _____

Date: _____

Tick one circle for each statement — on screen (click) or with a pen. Then try the quick checks: write your answer in the box, check it against the answers at the end, and tick “right” when you got it. ★ = IGCSE Extended tier only.

Averages and range

Mean, median, mode and range of lists and frequency tables.

	Don't know	Shaky	Got it
I can find the mean, median, mode and range of a list.	☐	☐	☐
I can find the mean from a frequency table.	☐	☐	☐
I can find a missing value from the mean.	☐	☐	☐

Grouped data

Estimating the mean and finding the modal class.

	Don't know	Shaky	Got it
I can estimate the mean of grouped data. ★	☐	☐	☐
I can identify the modal class. ★	☐	☐	☐

Charts and diagrams

Bar charts, pictograms, pie charts and stem-and-leaf diagrams.

	Don't know	Shaky	Got it
I can draw and read stem-and-leaf diagrams and other charts.	☐	☐	☐

Histograms ★

Frequency density for equal and unequal class widths.

	Don't know	Shaky	Got it
I can calculate frequency density. ★	☐	☐	☐
I can read a frequency from a histogram. ★	☐	☐	☐

Cumulative frequency ★

Graphs, median, quartiles, percentiles and interquartile range.

	Don't know	Shaky	Got it
I can draw a cumulative frequency graph. ★	☐	☐	☐
I can estimate quartiles from a cumulative frequency graph. ★	☐	☐	☐
I can find the interquartile range. ★	☐	☐	☐
I can find how many values are above a given value. ★	☐	☐	☐

Scatter diagrams

Correlation and lines of best fit.

	Don't know	Shaky	Got it
I can describe correlation.	☐	☐	☐
I can draw and use a line of best fit.	☐	☐	☐

Quick checks

One quick question per statement. Answer in the box, then check the answers at the end.

1. Find the median of 7, 3, 9, 4, 12, 5.

Answer: _____ ☐ I got it right

2. Scores 1, 2 and 3 have frequencies 4, 5 and 1. Find the mean score.

Answer: _____ ☐ I got it right

3. The mean of five numbers is 8. Four of them are 6, 7, 9 and 10. Find the fifth.

Answer: _____ ☐ I got it right

4. Times: 0–10 min (frequency 6) and 10–20 min (frequency 4). Estimate the mean time in minutes.

Answer: _____ ☐ I got it right

5. Classes 0–10: 3, 10–20: 8, 20–30: 5. What is the modal class?

A 10–20 **B** 0–10 **C** 20–30 **D** 8

Answer: _____ ☐ I got it right

6. In a stem-and-leaf diagram with key $3 \mid 4 = 34$, what does $5 \mid 1$ mean?

A 51 **B** 5.1 **C** 15 **D** 510

Answer: _____ ☐ I got it right

7. The class $20 < x \leq 30$ has frequency 15. What is its frequency density?

Answer: _____ ☐ I got it right

8. A bar for $10 < x \leq 25$ has frequency density 2. What is its frequency?

Answer: _____ ☐ I got it right

9. On a cumulative frequency graph, each point is plotted at...

A the upper end of each class **B** the middle of each class **C** the lower end of each class **D** the class width

Answer: _____ ☐ I got it right

10. There are 80 values. At what cumulative frequency do you read the lower quartile?

Answer: _____ ☐ I got it right

11. The upper quartile is 46 and the lower quartile is 31. Find the interquartile range.

Answer: _____ ☐ I got it right

12. 120 students took a test. The graph shows 85 scored 60 or less. How many scored more than 60?

Answer: _____ ☐ I got it right

13. As temperature rises, ice-cream sales rise. This is...

A positive correlation **B** negative correlation **C** no correlation

Answer: _____ ☐ I got it right

14. A line of best fit should...

A follow the trend with points evenly on both sides **B** pass through the origin **C** join the first and last points **D** go through every point

Answer: _____

☐ I got it right

Answers

Try every question first, then check.

1. 6
2. 1.7
3. 8
4. 9
5. A: 10–20
6. A: 51
7. 1.5
8. 30
9. A: the upper end of each class
10. 20
11. 15
12. 35
13. A: positive correlation
14. A: follow the trend with points evenly on both sides