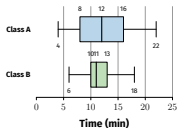


Push Tasks



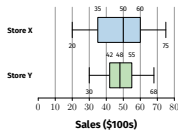
Compare two distributions using a box plot: the median, the spread, and the context.

1. This box plot shows how long (minutes) two classes took to solve the same puzzle.



Write a full comparison paragraph: compare the **medians**, compare the **spreads** (IQR), and refer to **context** (what this means for how a teacher might support each class).

2. This box plot compares weekly sales (\$100s) at two stores over a school term.



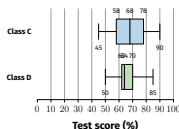
Compare the stores using the **median**, the **IQR**, and the **range**. Which store is more consistent? Refer to context (staffing or stock decisions).

Push Tasks



Critique and rewrite a weak paragraph using real values from a box plot. Handle uncertain evidence.

3. This box plot compares two classes' test scores (%).



Critique and rewrite this weak paragraph, citing the **median** and **IQR**:
“The graph shows numbers. Some are big. This is interesting.”

4. A survey of 200 customers suggests that 60–70% prefer self-checkout over staffed tills.

Write a paragraph that properly handles this **uncertainty** in your evidence, and explain why acknowledging a range matters more than picking a single number.

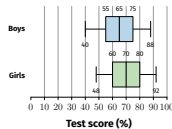
Push Tasks



Adapt the same evidence for different audiences.

5. Using the puzzle-solving data from Question 1 (Class A: median 12 min, IQR 8; Class B: median 11 min, IQR 3), write **two** short evidence sentences: one for a school newsletter (general audience) and one for a teacher's data report (technical audience). Explain the differences in language and detail.

6. This box plot compares test scores (%) for boys and girls, from a survey of Year 10 students at one school only.



Compare the groups using the **median** and **IQR**, then explain why surveying only Year 10 students at one school limits how far the findings can be generalised.

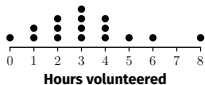
Push Tasks



Critique a misleading headline. Critique and rewrite using the mode and range from a dot plot.

7. A newspaper headline says: “Girls smash boys in test results!” Using the median and IQR from Question 6’s box plot (Girls: median 70, IQR 20; Boys: median 65, IQR 20), critique this headline and rewrite it as a fair, evidence-based statistical statement.

8. This dot plot shows hours volunteered per month by 16 students.



Critique and rewrite this weak paragraph, citing the **mode** and **range**: “Some people volunteer more than others. It’s good to help out.”