Understand five-number summaries, boxplots and outlier identification.

Key knowledge | Free preview

Learning target: Understand five-number summaries, boxplots and outlier identification.

State the quartile convention before calculating a five-number summary. A box marks the middle half of the observations and the median marks its internal centre. The 1.5-IQR fences flag possible outliers; they do not prove an error. Modified boxplot whiskers extend to the most extreme observations inside those fences.

Try the mathematics

Task 1. Data are 2, 4, 5, 6, 7, 8, 9, 11, 12, 30. Use the median of each five-value half for quartiles. Find the five-number summary, IQR and fences; draw a modified boxplot.

Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

Find this resource: https://resources.aspiretopowerlearning.com.au/vce/skills/aspire-internal-gm-u34-o1-aos1-kk-04/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Units 3–4; Outcome 1; Key knowledge; Data analysis; bullet 4; p. 89.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u34-o1-aos1-kk-04. This is an internal identifier, not an official VCAA code.

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