Construct parallel boxplots and interpret numerical–categorical association.

Key skills | Free preview

Learning target: Construct parallel boxplots and interpret numerical–categorical association.

Comparisons should use both centre and spread and should identify the measured variable and units. Parallel boxplots share one numerical axis so their positions can be compared fairly. A higher median does not mean every member of that group has a higher value. A contextual conclusion should acknowledge overlap and sample limitations.

Try the mathematics

Task 1. Group A waiting times are 2,4,5,6,7,8,9,11; group B times are 3,5,7,9,11,13,15,17 minutes. Find each five-number summary using medians of halves, and draw parallel boxplots on one scale.

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-ks-07/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Units 3–4; Outcome 1; Key skills; Data analysis; bullet 7; p. 90.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u34-o1-aos1-ks-07. This is an internal identifier, not an official VCAA code.

Free preview: share intact with attribution, without charging. Full resource rights are not included.

Original independent practice. Not published or endorsed by VCAA. The activity is not an official SAC, examination or complete treatment of every clause of a broad curriculum requirement.