Explain what a distribution shows and how a plot represents it.

Key knowledge | Free preview

Learning target: Explain what a distribution shows and how a plot represents it.

A numerical display should preserve the measurement scale and reveal the distribution. Dot plots show repeated individual values, stem plots retain the observations, and histograms group values into intervals. The chosen scale and bins must be stated. A description should connect shape, location, variation and unusual observations to the original variable.

Try the mathematics

Task 1. Ten waiting times in minutes are 2, 3, 3, 4, 5, 5, 5, 6, 8, 9. Draw a dot plot and a histogram with bins [0,3), [3,6), [6,9), [9,12). State the mean, median and range.

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-u1-o1-aos1-kk-02/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 1; Outcome 1; Key knowledge; Investigating and comparing data distributions; bullet 2; p. 30.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u1-o1-aos1-kk-02. This is an internal identifier, not an official VCAA code.

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