Calculate, explain and apply seasonal indices.

Key skills | Free preview

Learning target: Calculate, explain and apply seasonal indices.

A seasonal index measures a recurring season’s level relative to a typical period. One method divides each seasonal value by that year’s mean and averages ratios for the same season across years. Indices should average one after any required normalisation. Divide observations by indices to remove seasonality and multiply trend forecasts by them to restore it.

Try the mathematics

Task 1. Quarterly sales in Year 1 are 80,120,80,120 and in Year 2 are 100,150,100,150. Calculate each yearly mean, seasonal-to-yearly-mean ratios and the four seasonal indices.

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-16/

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 16; p. 90.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u34-o1-aos1-ks-16. This is an internal identifier, not an official VCAA code.

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