

8.1 Marketing analysis

Name: _____ Class: _____ Date: _____

Total: 27 marks

KEY WORDS trend 趋势 • seasonal variation 季节性波动 • elasticity 弹性 • correlation 相关性
• sales forecasting 销售预测

Objective

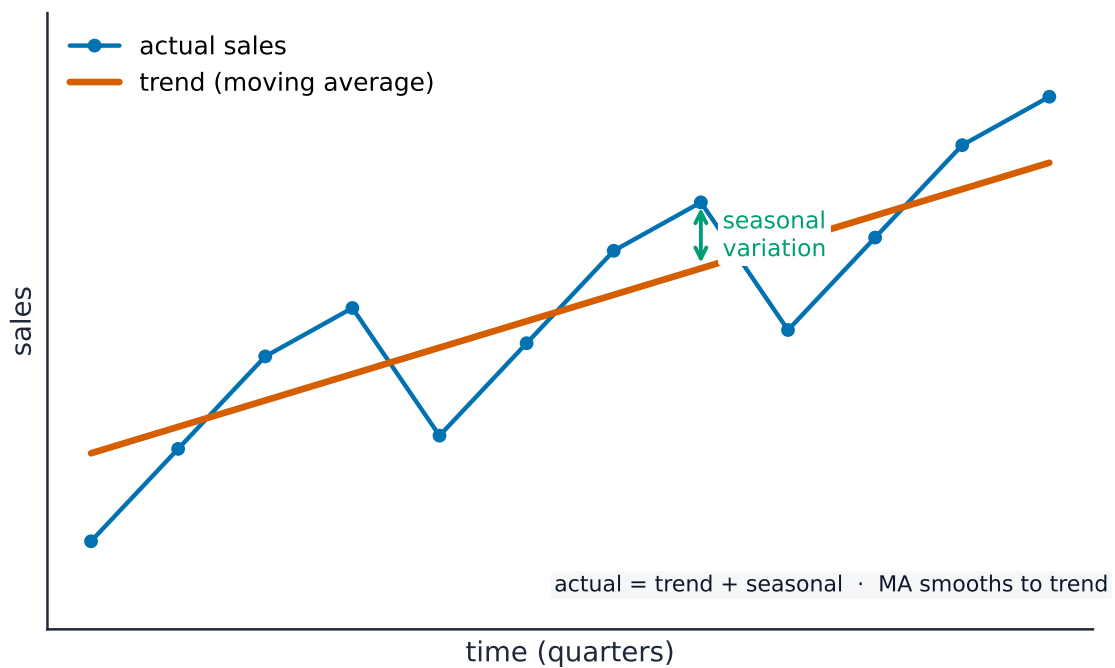
Build the skills to answer exam questions on **marketing analysis** 营销分析 — **sales forecasting** 销售预测 and **time-series analysis** 时间序列分析 (**trend** 趋势 and **seasonal variation** 季节性波动), **correlation** 相关性, and using **elasticity** 弹性 in marketing decisions.

You must be able to:

- explain trend and seasonal variation and calculate a forecast
- interpret correlation (and know it is not causation)
- analyse and evaluate the usefulness of marketing analysis tools

1 Worked examples

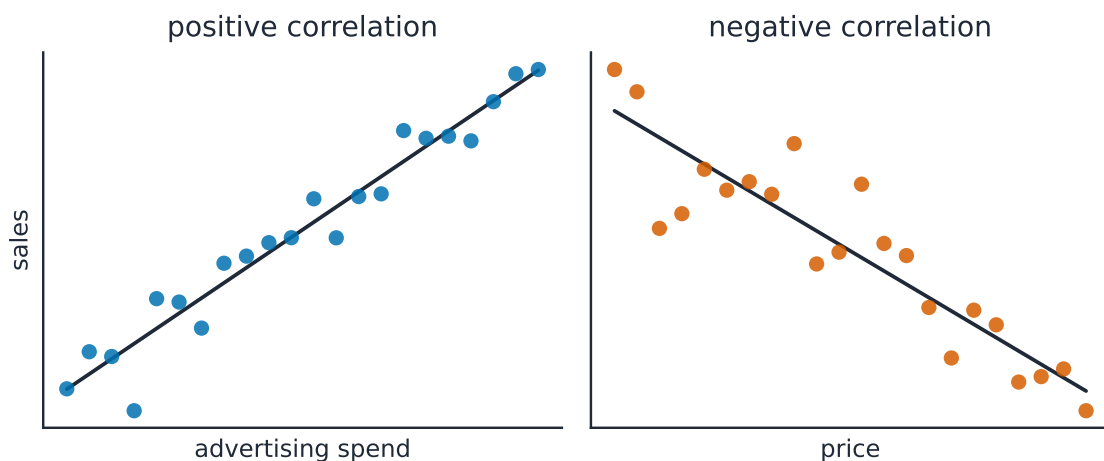
- Forecasting from a time series



Trend = long-run direction; seasonal variation = the regular within-year rise and fall

seasonal variation = actual value – trend value forecast = trend + seasonal variation

- **Worked:** trend 500, actual 560 → seasonal variation = +60. Next year's forecast for that quarter = trend + 60.
- **Correlation:** positive (rise together) or negative (one rises, other falls); strong correlation predicts but does **not** prove cause.



correlation $\neq$ causation · line of best fit shows direction

Correlation: positive (both rise) vs negative (one rises as the other falls)

- **Elasticity:** PED guides price; YED plans for booms/recessions; XED predicts a rival's price move.

Answer shapes: AO1 + AO2 + AO3 (reasoning chain) + AO4 (a supported judgement *in context*).

2 Practice

2.1 Define the term *sales forecasting*. [2]

2.2 A quarter has a trend value of 500 units and actual sales of 560 units. Calculate the seasonal variation. [2]

2.3 State the difference between *positive* and *negative* correlation. [2]

3 Exam-style questions

3.1 Explain one benefit to a business of accurate sales forecasting. [3]

(a) Calculate the forecast sales for the quarter. [2]

(b) Analyse one limitation of relying on this forecast. [4]

3.3 Evaluate the usefulness of time-series analysis to a business that is planning production. [12]