

Construct two-way tables and discuss possible relationship between categorical variables

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Learning intention

- construct two-way tables and discuss possible relationship between categorical variables

Teach and model

- using two-way tables to investigate and comparing the survey responses to questions involving five-point Likert scale against 2 different categories of...
- recording data in two-way tables and using percentages and proportions to identify patterns and associations in the data
- conducting a litter survey around the school, considering the relationship between different categorical variables such as the day of the week as canteen specials might...

Check understanding

- Explain the main idea in construct two-way tables and discuss possible relationship between categorical variables using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.