

Acquire, validate and represent data for nominal and ordinal categorical...

acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables, to address a question of interest or purpose using software including spreadsheets; discuss and report on data distributions in terms of highest frequency (mode) and shape, in the context of the data

Learning intention

- acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables, to address a question of interest or purpose using software including...

Teach and model

- recognising that ordinal data is a form of categorical data even though the data being collected might be numbers; for example, a rating scale using numbers 1 - 5 to represent...
- determining the mode for a set of data and discussing that there may be more than one mode
- identifying the best methods of presenting data to illustrate the results of investigations and justifying the choice of representations

Check understanding

- Explain the main idea in acquire, validate and represent data for nominal and ordinal categorical... 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.