

Interpret and compare data sets for ordinal and nominal categorical...

interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape

Learning intention

- interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and...

Teach and model

- determining the range for a numerical data set by finding the difference between the highest and the lowest value in the set and comparing the range for different data sets
- representing acquired numerical data sets using side-by-side column graphs, comparing the spread of each data set using the range, the highest frequency for each...
- representing ordinal data collected through surveys, using visualisation tools including dot plots and bar charts, and discussing the distribution of data in terms of shape

Check understanding

- Explain the main idea in interpret and compare data sets for ordinal and nominal 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.