



Lesson 29: Research methods 7.9 Dealing with data

Learning objective	To gain knowledge and understanding of measures of central tendency
Lesson objectives	By the end of the lesson, learners will be able to: <ul style="list-style-type: none"> • Explain the purpose of mean, median, and mode in psychology research • Describe how to calculate each measure from raw data • Identify which measure is most suitable for different types of data
Vocabulary	<p>Measures of average: values that show a typical score in a set of data</p> <p>Mean: value calculated by adding all the scores and then dividing by the numbers of scores in the data set</p> <p>Median: value that appears in the middle of a set of data, when arranged from the smallest score to the largest value</p> <p>Mode: value that appears most frequently in a set of data</p>
Previous learning	Learners have collected their own data and have studied data tables and how to create them. Learners may have previous knowledge of measures of average and measures of spread from other subjects including mathematics, though this is not required for this lesson.

Plan

Activities	Resources
Beginning (5 mins)	
Learners complete the starter activity to assess prior knowledge of why and how measures of average are used.	
Middle (50 mins)	
<ul style="list-style-type: none"> • Share the definition of measures of average and the mean with learners. Demonstrate how the mean is calculated using the flowchart example and why it is used. • Share the definition of mode and median with learners, for them to add to this notes or glossaries. Explain why each is used and model the calculations. Answer any questions and address any misunderstandings. 	

Lesson 29: Research methods 7.9 Dealing with data

	<ul style="list-style-type: none">• Learners can work in pairs to complete the tasks describing the method for calculating all measures of average and practicing the calculations themselves.• Consolidate understanding of when it is best to use each measure of average.	
End (5 mins)	Learners can check their understanding of this by completing the plenary activity selecting an appropriate measure of average for their data set from their group study. They will explain this to a partner to peer assess.	

Reflection and evaluation

Reflection:

Summary evaluation:

What two things went really well? (Consider both teaching and learning.)

- 1.
- 2.

What two things would have improved the lesson? (Consider both teaching and learning.)

- 1.
- 2.

What have I learned from this lesson about the class or individuals that will inform my next lesson?

We are committed to making the WCAG 2.1 Standard. We are always looking to improve the accessibility of our documents. If you find any problems or you think we are not meeting accessibility requirements, contact us at info@cambridgeinternational.org with the subject heading: Digital accessibility. If you need this document in a different format, contact us and supply your name, email address and requirements and we will respond within 15 working days.