

Longitudinal vs. Cross-Sectional Studies

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Daily XP 1399

Longitudinal vs. cross-sectional studies

A company manufactures thermometers, and they want to study the relationship between a thermometer's age and its accuracy. To do this, they take a sample of 100 different thermometers of different ages and test how accurate they are. Is this data longitudinal or cross-sectional?

Answer the question SOXP

Possible Answers

Select one answer

☒ Longitudinal

PRESS 1

☐ Cross-sectional

PRESS 2

☐ Both

PRESS 3

☐ Neither

PRESS 4

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Question:

A company manufactures thermometers, and they want to study the relationship between a thermometer's age and its accuracy. To do this, they take a sample of 100 different thermometers of different ages and test how accurate they are. Is this data longitudinal or cross-sectional?

Explanation of the Question:

This question examines whether the study involves data collected at one specific point in time from various thermometers, which would be cross-sectional, or data tracked over a period of time for the same thermometers, which would be longitudinal.

Answer:

Correct Answer: Cross-sectional

Explanation:

This study is cross-sectional because the thermometers of various ages are sampled and tested at a single point in time. Data is not being tracked over time for individual thermometers, which is characteristic of longitudinal

studies.