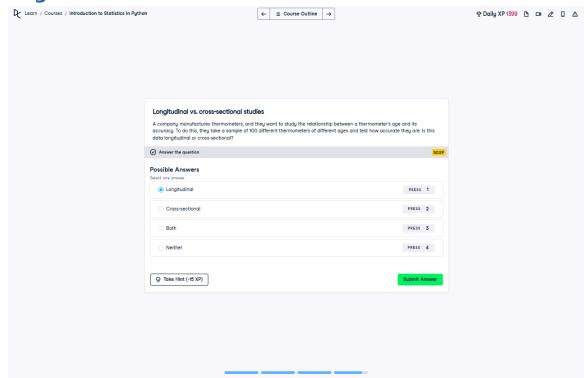
Longitudinal vs. Cross-Sectional Studies



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.