AP Statistics Study Design

AP Statistics | Experimental design | Advanced

Learner: _____ Date: _____

Classify each as an observational study or experiment. Identify the explanatory and response variables and a possible confounder.

Researchers assign two study schedules and compare quiz scores.

Answer: _____

A survey compares sleep hours with reported stress.

Answer: _____

Garden plots receive randomly assigned fertilizers; growth is measured.

Answer: _____

Records compare commute length with job satisfaction.

Answer: _____

Grown-up check: Classification depends on whether researchers impose treatments. Random assignment supports causal inference.

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