



# Statistics Data Organization - Study to Causation or Correlation

1

Teachers assign one class to use a new study program and another class to use the existing program before comparing final grades.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

2

Researchers find that students who participate in extracurricular activities tend to have higher attendance rates.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

3

Researchers observe that taller students tend to have larger shoe sizes.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

4

Gardeners apply two different fertilizers to comparable groups of plants and compare their growth after eight weeks.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

5

Researchers assign office workers to use either standing desks or traditional desks and compare reports of back pain.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

6

Scientists expose identical plants to different amounts of sunlight and compare their heights after one month.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

7

Participants are assigned to drink either regular coffee or decaffeinated coffee before completing a reaction-time test.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)

8

Patients are assigned to receive either a new medication or the current treatment before researchers compare recovery times.

Does this study establish causation, or only correlation?

A Causation (cause and effect)

B Correlation only (no cause and effect)