

A.S.13: Analysis of Data: Understand the difference between correlation and causation

- 1 Which relationship can best be described as causal?
 - 1) height and intelligence
 - 2) shoe size and running speed
 - 3) number of correct answers on a test and test score
 - 4) number of students in a class and number of students with brown hair

- 2 Which relationship can best be described as causal?
 - 1) The alarm goes off and the sun rises.
 - 2) The car is moving slowly and the driver is singing.
 - 3) The snow is falling and the stores run out of snow shovels.
 - 4) The birds are chirping and the rain is coming down.

- 3 Which situation does *not* describe a causal relationship?
 - 1) The higher the volume on a radio, the louder the sound will be.
 - 2) The faster a student types a research paper, the more pages the paper will have.
 - 3) The shorter the distance driven, the less gasoline that will be used.
 - 4) The slower the pace of a runner, the longer it will take the runner to finish the race.

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Answer Section

- 1 ANS: 3
The number of correct answers on a test causes the test score.

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- 2 ANS: 3 REF: 081406ia

- 3 ANS: 2 REF: 081104ia