

Circle the letter corresponding to the *best* answer.

Question 1. Which of the following is an example of negative correlation?

- (A) As hours studying for a test decrease, so do grades on that test.
- (B) Students' shoe sizes are not related to their grades.
- (C) Teenage females tend to have fewer speeding tickets than teenage males.
- (D) People who spend more time exercising tend to weigh less.
- (E) Students with low IQ scores tend to have lower grades.

Question 2. In an experiment to test the effects of room temperature on test performance, the independent variable is

- (a) the scores on the test before the experiment begins.
- (b) the scores on the test at the end of the experiment.
- (c) whether the teacher was male or female.
- (d) the temperature of the room.
- (e) the style of test (multiple choice versus essay).

Question 3. Researchers have discovered that individuals with lower income levels report having fewer hours of total sleep. Therefore

- (a) income and sleep levels are positively correlated.
- (b) income and sleep levels are negatively correlated.
- (c) income and sleep levels are not correlated.
- (d) getting less sleep causes lower income levels.
- (e) lower income levels cause individuals to have fewer hours of sleep.

Question 4. Which of the following correlation coefficients represents the strongest relationship between two variables?

- (a) +0.30
- (b) +0.75
- (c) +1.30
- (d) -0.85
- (e) -0.05

Question 5. The purpose of random assignment is to

- (a) allow participants in both the experimental and control groups to be exposed to the independent variable.
- (b) ensure that every member of the population has an equal chance of being selected to participate in the research.
- (c) eliminate the placebo effect.
- (d) reduce potential confounding variables.
- (e) generate operational definitions for the independent and dependent variables.