Quiz Chapter 8

Your answers: shade in the cell that best completes the statement or answers the question

	1	2	3	4	5
a					
b					
c					
d					
e					

Over the past few years, college enrollments have increased dramatically across the United States. Over this same time period, an educational task force reports that the number of students dropping out of college has significantly increased. A college newspaper reports on these results by stating, "In an effort to meet the demand of more students, it appears that colleges and universities are not providing the same level of support for students to graduate as they were a few years ago."

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1. What is wrong with the college newspaper's interpretation of the results?

    a. Because more people attend college these days, one should expect that more people will drop out of college.

    b. The newspaper is assuming that students drop out because of a lack of support.

    c. Both A and B are correct.

    d. Neither A nor B is correct.

2. How can one measure intelligence? One way is to measure the size of the brain. New technology makes it possible to measure the volume of a person's brain in cubic inches without injury. What is more, the measurement gives close to the same answer when one repeats it. But how big the brain is has no relation to how smart a person is. As a measure of intelligence, brain volume is

    a. reliable but invalid.

    b. valid but not reliable.

    c. valid and reliable.

    d. not reliable and invalid.

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A student's research shows that there were more car accidents in 2015 than there were in 1915. He concludes that people were better drivers in 1915 than in 2015.

3. Why is it not valid to use these two numbers to assess driving abilities in these 2 years?
   a. People had more distractions on the road in 2010 than they had in 1910.
   b. The numbers were compiled by a student instead of by a professional researcher.
   c. The number of cars in the United States increased substantially from 1910 to 2010.
   d. One shouldn't compare years that are so far apart.

4. In an experiment to study the effect of vibrations on plant growth, the height of a chrysanthemum was measured three times. The reason for making the measurement three times instead of just once was probably to
   a. decrease bias.
   b. eliminate confounding.
   c. increase reliability.
   d. completely eliminate measurement error.

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5. When repeated measurements each have a systematic error in the same direction, one says that the measurements contain

    a. precision.

    b. random error.

    c. bias.

    d. measurement error.

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Answer Key

1. a

2. a

3. c

4. c

5. c