

Quiz Chapter 9

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					

1. A 500-point drop in the DJIA was a big drop when the DJIA was at 2246 in October 1987 and a much smaller drop when the DJIA reached 11,421 in September 2008. The percent by which stock prices fall is a more meaningful measure. The lesson here is that

- a. rates are often more meaningful than counts.
- b. it is easy to make a mistake calculating a percent.
- c. the DJIA is a categorical variable.
- d. confidentiality has been violated.

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2. The value of a home decreased from \$150,000 to \$135,000.

- a. This is a decrease of 15%.
- b. This is a decrease of 10%.
- c. This is a decrease of 1%.
- d. This is a decrease of 11%.
- e. This is a decrease of 100%.

3. A student reports that, of a simple random sample of 25 college undergraduate students, 18% were working at least two jobs. We know that the student has made a mistake (or maybe really did not conduct the survey). Why?

- a. There are 25 students in the sample, so percentages should be multiples of 0.04%.
- b. There are 25 students in the sample, so percentages should be multiples of 4%.
- c. 18% of 25 students is 4.5 students, and you cannot sample a half of a student.
- d. Both A and C are correct.
- e. Both B and C are correct.

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4. Which of the following statements do you think could possibly be true?

- a. Last year, 60 of the 80 residents in a neighborhood subscribed to the local newspaper, and this year, it is 40 residents who subscribe. This is a 50% decrease.
- b. A company's annual profits increased by 110% over the last decade.
- c. A teacher brought 40 calculators to class, and 21% of them had dead batteries.
- d. The number of violent crimes in the city decreased by 112.46% last year.
- e. None of the above is true.

5. The average wage of production workers (adjusted for the effects of inflation) was \$11.08 an hour in 1981 and \$10.35 an hour in 1991. In the decade of the 1980s, wages went down by about

- a. 73%.
- b. 7.3%.
- c. 7.0%.
- d. 6.6%.

Name: _____ Class: _____ Date: _____

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Answer Key

1. a

2. b

3. e

4. b

5. d