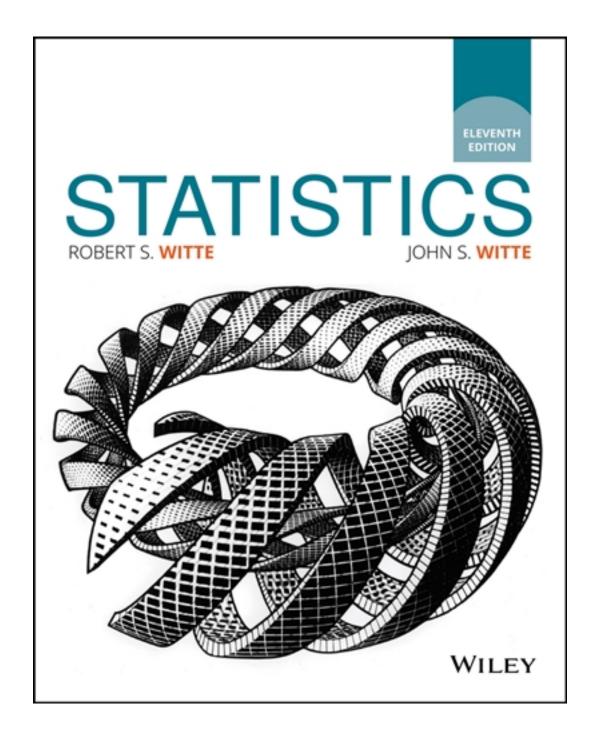
Test Bank for Statistics 11th Edition by Witte

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Test Bank

MULTIPLE-CHOICE TEST ITEMS CHAPTER 1 INTRODUCTION

- 1.1 Statistics exists because
 - a) variability.
 - b) mathematics.
 - c) complexity.
 - d) commonalities.

Ans: a

- 1.2 Which of the following is *not* one of the reasons mentioned for taking an introductory statistics class?
 - a) better understand research reports in your special area of interest
 - b) plan statistical analyses for modest research projects
 - c) intelligently evaluate statistical references in news publications and TV broadcasts
 - d) single-handedly plan the analysis for any research project

Ans: d

- 1.3 The more advanced area of statistics is
 - a) descriptive statistics.
 - b) inferential statistics.
 - c) population statistics.
 - d) analytical statistics.

Ans: b

- 1.4 The area of statistics that *organizes and summarizes* information about a collection of actual observations is known as
 - a) descriptive statistics.
 - b) inferential statistics.
 - c) population statistics.
 - d) analytical statistics.

Ans: a

- 1.5 A single word that best describes *inferential* statistics is
 - a) analyzing.
 - b) summarizing.
 - c) organizing.
 - d) generalizing.

Ans: d

- 1.6 Indicate whether *one*, *both*, *or neither* of the following statements typifies *descriptive* statistics.
 - a) It usually takes several months before a person feels "at home" in a new environment.
 - b) My income last summer was about \$10,000.
 - c) both a and b
 - d) neither a nor b

Ans: b

- 1.7 Indicate whether *one*, *both*, *or neither* of the following statements typifies *descriptive* statistics.
 - a) There is a tendency for elderly people to postpone their death until after their birthday.
 - b) People with similar personalities are mutually attracted.
 - c) both a and b

d) neither a nor b

Ans: d

- 1.8 Indicate whether one, both, or neither of the following statements typifies inferential statistics.
 - a) Daily meditation reduces stress.
 - b)The national deficit for last year exceeded 500 billion.
 - c) both a and b
 - d) neither a nor b

Ans: a

- 1.9 When conducting a survey, it is important that the sample be
 - a) large.
 - b) haphazard
 - c) carefully selected
 - d) random

Ans: d

- 1.10 Some form of randomization should occur in both
 - a) descriptive and inferential statistics
 - b) populations and samples
 - c) surveys and experiments
 - d) independent and dependent variables

Ans: c

- 1.11 Random assignment helps us to determine whether an observed difference between two groups is
 - a) larger than expected just by chance.
 - b) probably is real.
 - c) merits further attention.
 - d) all of the above.

Ans: c

- 1.12 A statistical analysis is based on
 - a) data.
 - b) words.
 - c) labels.
 - d) numbers.

Ans: a

- 1.13 Quantitative observations consist of
 - a) words.
 - b) numerical codes.
 - c) numbers.
 - d) all of the above

Ans: c

- 1.14 Indicate whether *one*, *both*, *or neither* of the following statements describes *quantitative* observations.
 - a) score on this exam
 - b) vocational goal
 - c) both a and b
 - d) neither a nor b

Ans: a

- 1.15 Indicate whether *one*, *both*, *or neither* of the following statements describes *qualitative* observations.
 - a) place of birth
 - b) political preference
 - c) both a and b
 - d) neither a nor b

Ans: c

- 1.16 Indicate whether *one*, *both*, *or neither* of the following statements describes *qualitative* observations.
 - a) IQ score
 - b) age
 - c) both a and b
 - d) neither a nor b

Ans: d

- 1.17 Indicate whether *one*, *both*, *or neither* of the following statements describes *ranked* observations.
 - a) finish order at a car race.
 - b) birth order among children in a family
 - c) both a and b
 - d) neither a nor b

Ans: c

- 1.18 In a survey of religious affiliation, numbers are assigned as follows: 1-None, 2-Christian, 3-Jewish, 4-Buddhist, 5-Other. Therefore it is appropriate to conclude that
 - a) two Christians equal one Buddhist.
 - b) a Jew is intermediate between a Christian and a Buddhist.
 - c) five different classes of religious affiliation are being distinguished.
 - d) religious affiliation can be treated as quantitative data.

Ans: c

- 1.19 An important *first* step in a statistical analysis requires that observations be identified as either
 - a) words or numerical codes.
 - b) quantitative, ranked, or qualitative.
 - c) true or false.
 - d) amounts or counts.

Ans: b

- 1.20 Data are *quantitative* if any single observation within a batch of observations represents a(n)
 - a) amount or count.
 - b) word or label.
 - c) coding device.
 - d) bit of information.

Ans: a

- 1.21 You are asked whether 1, 3, 2, 5, 3, 7 constitute quantitative or qualitative data. Your best reply is
 - a) quantitative because these numbers involve an amount or count.
 - b) qualitative because these numbers reflect arbitrary numerical codes or labels.
 - c) quantitative or qualitative depending on the accuracy of these numbers.
 - d) quantitative or qualitative depending on whether these numbers represent an amount or count,

or merely a numerical code.

Ans: d

- 1.22 The simplest level of measurement is
 - a) interval/ratio.
 - b) ordinal.
 - c) nominal.
 - d) approximately interval.

Ans: c

- 1.23 The most complex level of measurement is
 - a) interval/ratio
 - b) ordinal.
 - c) nominal.
 - d) approximately interval.

Ans: a

- 1.24 Shifts to more complex levels of measurement are accompanied by sets of observations that contain
 - a) more information.
 - b) less information.
 - c) more errors.
 - d) fewer errors.

Ans: a

- 1.25 If movies are rated on a scale from four stars (outstanding) to no stars (terrible), measurement is
 - a) interval/ratio
 - b) ordinal.
 - c) nominal.
 - d) approximately interval.

Ans: b

- 1.26 If people are classified as either literate, semi-literate, or illiterate, measurement is
 - a) interval/ratio
 - b) ordinal.
 - c) nominal.
 - d) approximately interval.

Ans: b

- 1.27 If college students are polled about how many academic units they are carrying during the current term, measurement is
 - a) interval/ratio
 - b) ordinal.
 - c) nominal.
 - d) approximately interval.

Ans: a

- 1.28 Qualitative data are associated with
 - a) all levels of measurement.
 - b) interval/ratio, ordinal, and nominal measurement.
 - c) ordinal and nominal measurement.
 - d) nominal measurement.

Ans: c

- 1.29 Quantitative data are associated with
 - a) all levels of measurement.
 - b) interval/ratio and ordinal measurement.
 - c) interval/ratio
 - d) interval/ratio and approximately interval measurement.

Ans: d

- 1.30 Ranked data are associated with
 - a) all levels of measurement
 - b) ordinal measurement
 - c) approximately interval measurement
 - d) nominal measurement.

Ans: b

- 1.31 The distinctive property of ordinal measurement is
 - a) equal intervals.
 - b) order.
 - c) classification.
 - d) a true zero.

Ans: b

- 1.32 Which level of measurement is *not* represented in the following statement? A racehorse, wearing number *three*, finishes *second*, with a time of *1.50 minutes*.
 - a) nominal
 - b) ordinal
 - c) approximately interval
 - d) interval/ratio

Ans: c

- 1.33 Which level of measurement is represented <u>twice</u> in the following statement? In my group dynamics class, I arrived <u>last</u> but spoke <u>most often</u> during the lengthy <u>three-hour</u> session.
 - a) nominal
 - b) ordinal
 - c) approximately interval
 - d) interval/ratio

Ans: h

- 1.34 Six is twice three only when these numbers emerge from a scale of measurement having
 - a) classification.
 - b) order.
 - c) equal intervals.
 - d) a true zero.

Ans: d

- 1.35 The attainment of interval/ratio measurement is particularly difficult when you attempt to measure
 - a) physical characteristics.
 - b) nonphysical characteristics.
 - c) complex characteristics.
 - d) simple characteristics.

Ans: b

- 1.36 As measures of academic achievement, grade point averages only approximate interval measurement. Nevertheless, it would be permissible to claim that a GPA of 2.00 represents
 - a) an amount of academic achievement roughly midway between GPAs of 1.00 and 3.00.
 - b) twice as much academic achievement as a GPA of 1.00.
 - c) an amount of academic achievement midway between GPAs of 1.00 and 3.00.
 - d) none of the above

Ans: a

- 1.37 Data that approximate interval measurement receive the same statistical treatment as
 - a) nominal and ordinal data.
 - b) ordinal and interval data.
 - c) interval/ratio data.
 - d) ordinal, interval, and interval/ratio data.

Ans.

- 1.38 When data only approximate interval measurement, as often happens in the behavioral and social sciences, you should
 - a) interpret numerical claims cautiously.
 - b) shift to more precise measurement.
 - c) question the worth of the data.
 - d) develop more incisive research techniques

Ans: a

- 1.39 A characteristic that can assume more than one value is referred to as
 - a) fickle.
 - b) changeable.
 - c) a constant.
 - d) a variable.

Ans: d

- 1.40 Which one of the following quantitative variables is *not* continuous?
 - a) age
 - b) speed
 - c) population
 - d) height

Ans: c

- 1.41 When values are rounded off, the resulting numbers are
 - a) approximate.
 - b) erroneous.
 - c) misleading.
 - d) speculative.

Ans: a

- 1.42 Gaps among values of continuous variables are
 - a) more apparent than real.
 - b) caused by rounding off procedures.
 - c) reflect our need to deal with finite numbers.
 - d) all of the above.

Ans: d

1.43 To determine whether a new sleeping pill is effective, adult insomniacs receive a pill (either real or fake, according to some impartial assignment rule) and subsequently their sleeping times are

measured, in minutes, during eight-hour observation periods. In this study, sleeping time is

- a) the independent variable.
- b) the dependent variable.
- c) either the independent or the dependent variable.
- d) neither the independent nor the dependent variable.

Ans: b

1.44 To determine whether a new sleeping pill is effective, adult insomniacs receive a pill (either real or fake, according to some impartial assignment rule) and subsequently their sleeping times are measured, in minutes, during eight-hour observation periods.

This study can best be described as

- a) an experiment.
- b) an observational study.
- c) one involving two variables.
- d) one involving human subjects.

Ans: a

- 1.45 An independent variable is defined as a treatment that the investigator
 - a) measures.
 - b) manipulates.
 - c) modifies.
 - d) makes.

Ans: b

- 1.46 A distinctive property of an experiment is that the investigator decides on
 - a) the laboratory setting.
 - b) the two variables to be studied.
 - c) the quantification of the dependent variable.
 - d) who receives the special treatment.

Ans: c

- 1.47 When compared to observational studies, well-designed experiments provide conclusions that are more clear-cut about
 - a) human populations.
 - b) relationships.
 - c) cause-effect relationships.
 - d) large batches of data.

Ans: c

- 1.48 When variables cannot be manipulated by the investigator, relationships must be studied with
 - a) observational studies
 - b) patience
 - c) very small numbers of subjects
 - d) an abstract perspective

Ans: a

- 1.49 A confounding variable
 - a) increases the generality of a study
 - b) compromises the interpretation of a study
 - c) replaces the independent variable
 - d) facilitates the interpretation of a study

Ans: b

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- 1.50 An experiment permits a decision about whether an observed difference is
 - a) true or false.
 - b) large or small.
 - c) real or transitory.
 - d) important or unimportant.
 - e) Ans: c