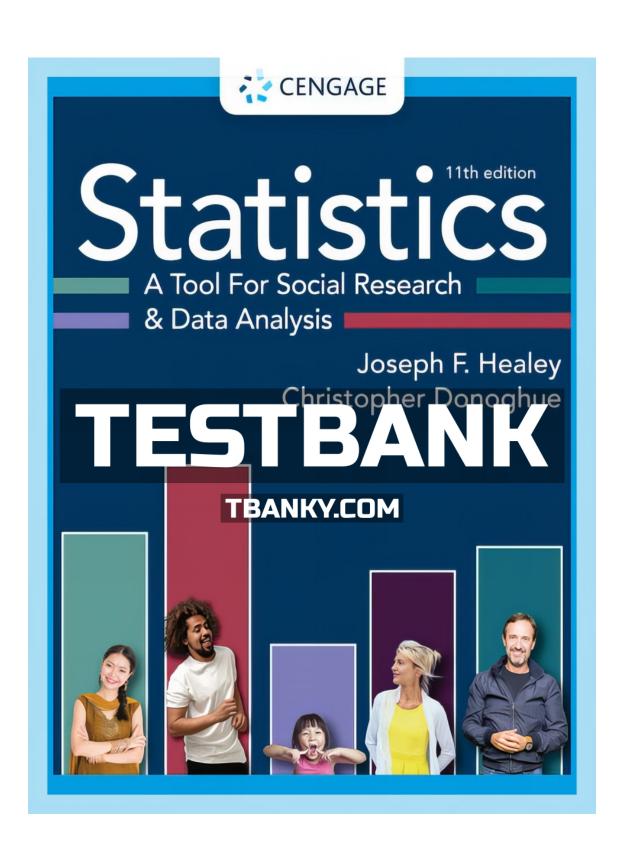
TEST BANK FOR STATISTICS A TOOL FOR SOCIAL RESEARCH AND DATA ANALYSIS 11TH EDITION HEALEY ISBN 9780357371077



Name:	Class:	Date:
Chapter 1 - Introduction		
1. In social research the purpose of statistic	cs is to	
a. prove that the research theory is co	rrect.	
b. validate the research project design	ı.	
c. manipulate and analyze data.		
d. ensure acceptance by the scientific	community.	
ANSWER: c		
2. During which stage does the Wheel of So a. theory	cience begin for a researcher undertak	ing a new study?
b. hypotheses		
c. observations		
d. empirical generalizations		
ANSWER: b		
3. In terms of the Wheel of Science, a hypo	othesis is derived from and	leads to
a. statistics, observation		
b. theory, generalizations		
c. observation, generalizations		
d. theory, observation		
ANSWER: d		
4. In the language of science, a variable tha	at is thought to be causal is called	
a. an independent variable.		
b. a hypothetical variable.		
c. a primary variable.		
${ m d.}$ a dependent variable.		
ANSWER: a		
If people who habitually drive over the sa. an independent variable.	peed limit have more fatal accidents,	then speed is
b. the dependent variable.		
c. an effect or result variable.		
d. None of the answer choices.		
ANSWER: a		
6. A hypothesis states, in part, that "incom	e increases as education increases" Ir	this statement income is
a. the dependent variable.		in the state of th
b. the independent variable.		
c. the hypothetical variable.		
d. the secondary variable.		

ANSWER: a

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- 7. In terms of the "Wheel of Science", statistics are central to the research process
 - a. only between the theory phase and the hypothesis phase.
 - b. only between the hypothesis phase and the observation phase.
 - c. only between the observation phase and the empirical generalization phase.
 - d. only between the empirical generalization phase and the theory phase.

ANSWER: c

- 8. The problem with "push polls" is that
 - a. they do not use the scientific method.
 - b. they rely too much on scientific sampling.
 - c. they rarely have hypotheses.
 - d. they require very large samples.

ANSWER: a

- 9. "Ninety percent of dorm residents approved a proposed ban on smoking". This statement is an example of the use of
 - a. inferential statistics.
 - b. univariate descriptive statistics.
 - c. multivariate descriptive statistics.
 - d. inductive statistics.

ANSWER: b

- 10. The data reduction process of descriptive statistics
 - a. allows a few meaningful numbers to summarize a large amount of data.
 - b. eliminates incorrect data.
 - c. simply lists all available information in order.
 - d. is rarely used.

ANSWER: a

- 11. Measures of association are a type of descriptive statistics that allow us to
 - a. investigate the causal influence of some variables on others.
 - b. predict the score on one variable from the score on another.
 - c. know the strength and direction of a relationship between two or more variables.
 - d. All of the answer choices.

ANSWER: d

- 12. A researcher wants to know if there is a relationship between region of birth and political party affiliation. She should calculate a
 - a. univariate descriptive statistic like the mean.
 - b. qualitative measure of influence.
 - c. measure of association.
 - d. statistic that measures the non-relational differentiation between the two variables.

ANSWER: c

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13. Measures of association allow rese	earchers to quantify the of a re	elationship.
a. strength		
b. direction		
c. strength and direction		
d. causality		
ANSWER: c		
related to whether or not the individu	e drawn from a local community finds that al favors an increase in local sales tax (th proposed tax increase"). This is an examp	e headline of a newspaper story based on
a. univariate descriptive statistics		
b. inferential statistics.		
c. multivariate descriptive statisti	cs.	
d. reductionist statistics.		
ANSWER: b		
15. Inferential statistics are usually ba	sed on	
a. populations.		
b. samples.		
c. individuals.		
d. groups.		
ANSWER: b		
16. Inferential statistics are necessary	in social research because	
a. it may be impossible to find all	members of a certain population.	
b. social scientists don't have the	time or money to test an entire population	on.
c. some of the population might r	not cooperate.	
•	te representations of the population but	can't always be used to generalize.
ANSWER: b		
	lents in the dorm. In this research situation	r religious beliefs and use this information on
b. the dorm is a sample.		
c. this is an example of descriptive	e statistics.	
d. the sample is the 27 students w	vho were questioned.	
ANSWER: d		
18. Inferential statistics are usually ba	sed on:	
a. populations.		
b. samples.		

c. individuals.

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ANSWER: b		
 19. Which of the following survey items of a. How old are you? b. How long does it take you to come. c. How much did you pay in taxes lated. How many cars do you own right of an area. ANSWER: d	mute to work? st year?	
 20. Which of the following questions wood. a. How old are you? b. How many books do you own? c. How many times have you ever ched. How many degrees do you have? ANSWER: a		
21. Which of the following is a continuous a. Number of children b. Time spent watching TV c. Number of times you have changed d. Number of meals you consumed y ANSWER: b	ed residences within the last five years	
22. If a variable is discrete, it cannot be a. continuous.b. interval-ratio.c. observable.d. ordinal. ANSWER: a		
23. A nominal-level variable like marital sa. discrete.	status or gender is always	

b. continuous.

c. ordinal.

d. dependent.

ANSWER: a

24. Which of the following is NOT a nominal level variable?

- a. Level of education
- b. Zip code
- c. Occupation
- d. Make of auto

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ANSWER: a		
25. Choose the nominal level variable below:		
a. size of family unit		
b. eye color of students in statistics class		
c. speed of travel of a jet		
d. your weight		
ANSWER: b		
26. In addition to saying that one case is differer	nt from another, the ordinal level o	of measurement allows us to
a. put cases in general categories.		
b. measure the distance between high and	ow.	
c. say that one case is more or less than and	other.	
d. calculate meaningful averages of variable	s.	
ANSWER: c		
27. The variable socioeconomic status ranges fro	om upper class to lower class and i	s an example of the
a. nominal level of measurement.		
b. ordinal level of measurement.		
c. interval-ratio level of measurement.		
d. ratio level of measurement.		
ANSWER: b		
$28.\ { m When}$ using interval-ratio data, the distance	between the scores is	
a. always two units.		
b. unequal.		
c. exactly defined.		
d. not always clear.		
ANSWER: c		
29. Which of the following can be treated as an	interval-ratio variable?	
a. Social security number		
b. Zip code		
c. Age		
d. Hair color		
ANSWER: c		
30. Interval-ratio measurements can be all of the a. nominal.	e following except:	

b. continuous.c. discrete.d. observable.

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ANSWER: a		
31. On a test, the numbers used to ident number of correct responses would be _ a. nominal, interval-ratio		in level of measurement while the
b. interval-ratio, nominal		
c. continuous, discrete		
d. ordinal, nominal		
ANSWER: a		
32. Interval-ratio relationships can be all a. nominal.b. continuous.c. discrete.d. observable.	of the following except	
ANSWER: a		
33. Computation of a mean (or average) a. Interval-ratio b. Ordinal c. Nominal d. Discrete ANSWER: a		
34. Which of the following mathematical a. additionb. subtractionc. divisiond. none of these choices are correct	operations are permitted with nom	inally measured variables?
ANSWER: d		
35. A researcher has numbered all 50 sta birth."	tes from 1 to 50 and has calculated a	a mean of 17.43 for the variable "state of
a. Since the variable is nominal, the	mean makes no sense.	
b. Since the variable is ordinal, we sh	nould treat the value of the mean wi	th great caution.
$c.\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	he mean is an appropriate and usefu	ıl statistic in this case.
${f d}.$ Since this variable is discrete, the	mean should not be computed.	
ANSWER: a		
		nce". Identify and explain each of the stages that is the role of statistics in the process?

ANSWER: Not given.

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- 37. Some research situations are summarized below. For each situation, identify all variables and characterize them in terms of level of measurement and whether they are discrete or continuous. If applicable, identify which variables are dependent and which are independent. Explain your reasoning. What statistical application is being used?
- a. A group of one hundred students are asked for their High School and college GPAs. The GPAs are then compared to see if there is any relationship between them.
- b. A candidate for student body president telephones a randomly selected sample of students and asks about their opinion of the system used for course evaluation. Each student is asked if they strongly support, moderately support, or do not support the system. The candidate then uses this information to characterize the opinions of the entire student body.
- c. From what regions of the nation does the college football program recruit players? A researcher ascertains the hometowns of every member of the team for the past ten years.
- d. Which sport on campus has the players with the highest GPAs? The academic records of randomly selected samples of athletes from all sports are compared to answer this question.
- e. Is academic achievement associated with any "background" variables? Information on a sample of students is collected. The information includes GPA, age, sex, major, years of schooling completed by both parents, and marital status of the student.

ANSWER: Not Given