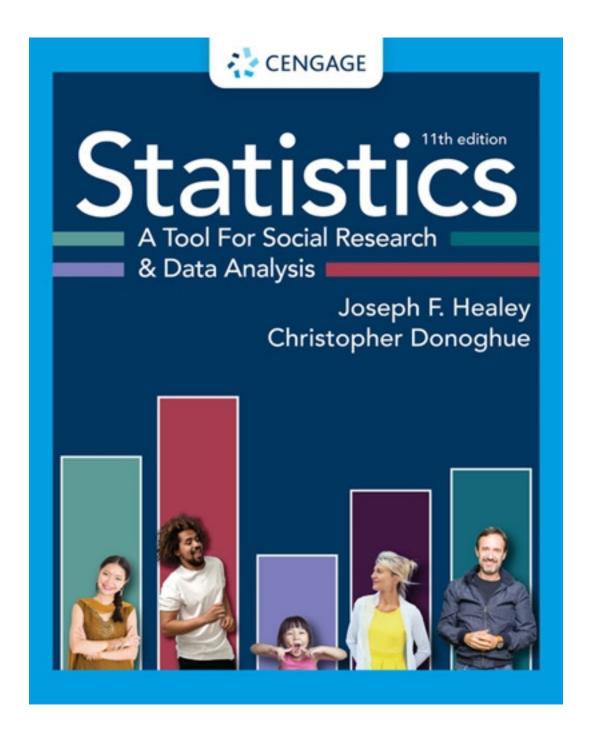
# Test Bank for Statistics A Tool for Social Research and Data Analysis 11th Edition by Healey

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# Test Bank

Name:	Class:	Date:
Chapter 1 - Introduction		
1. In social research the purpose of statistics is to	)	
$\boldsymbol{a}.$ prove that the research theory is correct.		
b. validate the research project design.		
c. manipulate and analyze data.		
d. ensure acceptance by the scientific comm	unity.	
ANSWER: c		
2. During which stage does the Wheel of Science a. theory	begin for a researcher underta	king a new study?
b. hypotheses		
c. observations		
d. empirical generalizations		
ANSWER: b		
3. In terms of the Wheel of Science, a hypothesis	is derived from and	d leads to
a. statistics, observation		
b. theory, generalizations		
c. observation, generalizations		
d. theory, observation		
ANSWER: d		
<ol> <li>In the language of science, a variable that is th a. an independent variable.</li> </ol>	ought to be causal is called	
b. a hypothetical variable.		
c. a primary variable.		
d. a dependent variable.		
ANSWER: a		
5. If people who habitually drive over the speed l a. an independent variable.	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 "income incre	eases as education increases". I	n this statement, income is
a. the dependent variable.		
b. the independent variable.		
c. the hypothetical variable.		
d. the secondary variable.		

ANSWER: a

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#### **Chapter 1 - Introduction**

- 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.
  - $d_{\cdot}$  statistic that measures the non-relational differentiation between the two variables.

#### ANSWER: c

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13. Measures of association allow	researchers to quantify the of a rela	ationship.
a. strength		
b. direction		
c. strength and direction		
d. causality		
ANSWER: c		
related to whether or not the indi	mple drawn from a local community finds that a ividual favors an increase in local sales tax (the port proposed tax increase"). This is an example stics.	headline of a newspaper story based on
b. inferential statistics.		
c. multivariate descriptive sta	atistics.	
d. reductionist statistics.		
ANSWER: b		
15. Inferential statistics are usuall	ly based on	
a. populations.		
b. samples.		
c. individuals.		
${ m d.}$ groups.		
ANSWER: b		
16. Inferential statistics are neces	sary in social research because	
a. it may be impossible to find	d all members of a certain population.	
b. social scientists don't have	the time or money to test an entire population	n.
c. some of the population mi	ght not cooperate.	
d. samples are sometimes ac	curate representations of the population but ca	an't always be used to generalize.
ANSWER: b		
	nts in a particular dorm on campus about their restudents in the dorm. In this research situation	-
·		
b. the dorm is a sample.	intivo statistics	
c. this is an example of descr	•	
d. the sample is the 27 stude ANSWER: d	nts who were questioned.	
18. Inferential statistics are usuall a. populations.	y based on:	

b. samples.c. individuals.d. groups.

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Name:	_Class:	_Date:
<b>Chapter 1 - Introduction</b>		
ANSWER: b		
<ul> <li>19. Which of the following survey items would generate a <ul> <li>a. How old are you?</li> <li>b. How long does it take you to commute to work?</li> <li>c. How much did you pay in taxes last year?</li> <li>d. How many cars do you own right now?</li> </ul> </li> <li>ANSWER: d</li> </ul>	discrete variable?	
<ul><li>20. Which of the following questions would generate a contain.</li><li>a. How old are you?</li><li>b. How many books do you own?</li><li>c. How many times have you ever changed a flat tire?</li><li>d. How many degrees do you have?</li></ul>		

ANSWER: a

- 21. Which of the following is a continuous variable?
  - a. Number of children
  - b. Time spent watching TV
  - c. Number of times you have changed residences within the last five years
  - d. Number of meals you consumed yesterday

ANSWER: b

- 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 status or gender is always
  - a. discrete.
  - 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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Chapter 1 - Introduction		
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 differe	ent from another, the ordinal leve	el of measurement allows us to
a. put cases in general categories.		
b. measure the distance between high and		
c. say that one case is more or less than ar		
d. calculate meaningful averages of variable	es.	
ANSWER: c		
27. The variable socioeconomic status ranges fo	rom upper class to lower class an	d is 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. When using interval-ratio data, the distance	e 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 th	ne following except:	
a. nominal.		

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

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ANSWER: a		
31. On a test, the numbers used to identify number of correct responses would be		in level of measurement while the
b. interval-ratio, nominal		
c. continuous, discrete		
d. ordinal, nominal  ANSWER: a		
<ul><li>32. Interval-ratio relationships can be all of a. nominal.</li><li>b. continuous.</li><li>c. discrete.</li><li>d. observable.</li></ul> ANSWER: a	of the following except	
ANOWEN. a		
<ul> <li>33. Computation of a mean (or average) is</li> <li>a. Interval-ratio</li> <li>b. Ordinal</li> <li>c. Nominal</li> <li>d. Discrete</li> </ul> ANSWER: a	s completely justified when a varia	ble is measured at which level?
34. Which of the following mathematical	operations are permitted with non	ninally measured variables?
a. addition		
b. subtraction		
c. division		
d. none of these choices are correct ANSWER: d		
35. A researcher has numbered all 50 stat birth."	es from 1 to 50 and has calculated	a mean of 17.43 for the variable "state of
a. Since the variable is nominal, the r	nean makes no sense.	
b. Since the variable is ordinal, we sh	ould treat the value of the mean w	rith great caution.
c. The variable is interval-ratio and th	e mean is an appropriate and usef	ful statistic in this case.
$\mbox{d.}$ Since this variable is discrete, the r $\mbox{\it ANSWER:}$ a	nean should not be computed.	
•	•	ence". Identify and explain each of the stages What is the role of statistics in the process?

ANSWER: Not given.

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#### **Chapter 1 - Introduction**

- 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