Applied Statistics Using Stata - A Guide for the Social Sciences 2nd edition Mehmetoglu Test Bank

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Testbank

Chapter 1: Research and statistics

1. When employing inferential statistics, which tradition within theory of science do we adhere to?

a) Constructivism

b) Positivism

c) Hermeneutics

d) Interpretivism

Ans: B

2. What is the positivist assumption?

a) Observations and experience depend on the perspective of the observer

b) The patterns of interest are a product of our own making

c) The world consists of regularities that can be measured and explained

d) You cannot acquire knowledge from studying the world

Ans: C

3. In a normal distribution, what percentage of the observations fall within 1.96 standard deviations from the mean?

a) 90%

b) 95%

c) 97.5%

d) 99%

Ans: B

4. Within probability theory, what does probability (or *p*-) values tell us?

a) The probability of being wring when we confirm a null hypothesis

b) The probability of being correct when we reject a null hypothesis

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c) The probability of being mistaken when we reject a null hypothesis

d) The probability of being right when we confirm a null hypothesis

Ans: C & D

5. When you are investigating a full population, you are generalizing within?

a) Stochastic model theory

b) Probability theory

c) Statistical theory

d) The law of large numbers

Ans: A

Chapter 2: Introduction to Stata

1. Which of the following do we use to type in commands in Stata?

a) Command window

b) Review window

c) Variables window

d) Do-file editor

Ans: A & D

2. Which of the following is the command to open a dataset?

a) pwd

b) describe

c) use

d) open

Ans: C

3. Which of the following is the command that will give us the mean of a variable?

a) describe

b) codebook

c) sum

d) mean

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Ans: C

4. Which of the following codes are wrong?

a) gen age2==age*age

b) gen age2=age*age

c) keep if gender==2

d) keep if gender=2

Ans: A & D

5. Which of the following commands is used for combining datasets based on observations?

a) merge

b) list

c) reshape

d) append

Ans: D

Chapter 3: Simple (bivariate) regression

1. What does a simple linear regression analysis examine?

a) The relationship between only two variables

b) The relationship between one dependent and one independent variable

c) The relationship between many variables

d) The relationship between two dependent and one independent variable

Ans: A & C

2. Which of the following are correct?

a) The intercept/constant (β_0) is the mean-Y when X = 0

b) The intercept is the amount of change in mean-Y when X = 0

c) The coefficient is the mean-Y at a certain value of X

d) The coefficient (β) is the amount of change in mean-Y for every unit increase in X

Ans: A & D

3. What does the least squares method do exactly?

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a) Minimizes the distance between data points

b) Finds the least problematic regression line

c) Finds those (best) values of the intercept and slope that provide us with the smallest value of the residual sum of squares

d) Finds those (best) values of the intercept and slope that provide us with the smallest value of the sum of residuals

Ans: C

4. Which of the following measures is optimal for comparing the goodness of the fit of competing regression models involving the same dependent variable?

a) The intercept

b) The coefficient

c) *R*-square

d) Standard deviation of the residuals

Ans: D

5. What does the following expression ($H_0 : _1 = 0$) mean?

a) Mean-*Y* changes as a result of a change in *X*

b) Mean-*Y* does not change as a result of change in *X*

c) Mean-*Y* value becomes 0 as a result of a change in *X*

d) Mean-*Y* value is equal to 0 when *X*▓=▓0

Ans: B

Chapter 4: Multiple regression

1. What does a multiple linear regression analysis examine?

a) The relationship between more than one dependent and only one independent variable

b) The relationship between one or more than one dependent and only one independent variable

c) The relationship between one dependent and more than one independent variables

d) The relationship between more than one independent variables

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