Statistical Techniques In Business And Economics 17th Edition Lind Solutions Manual

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Chapter 1

What Is Statistics?

1.	а.	Interval	b.	Ratio
	с.	Nominal	d.	Nominal
2.	е.	Ordinal	f.	Ratio (LO1-5)
	а.	Ratio	b.	Nominal
2.	а. С.	Ratio	d.	Ratio (LO1-5)
3.	Answ	ver will vary. (LO1-5)		

4.	a.	Sample	b.	Population
	c.	Population	d.	Sample (LO1-3)

- 5. Qualitative data is not numerical, whereas quantitative data is numerical. Examples will vary by student. (LO1-4)
- 6. A population is the entire group which you are studying. A sample is a subset taken from a population. **(LO1-3)**
- 7. Discrete variables can assume only certain values, but continuous variables can assume any values within some range. Examples will vary. (LO1-4)
- 8. a. A population is used because the professor likely has grades readily available from every student over the past 5 years.
 - b. A population is employed because the information is easy to find.
 - c. A population is used because the information is easy to find.
 - d. A sample works because it is difficult to locate every musical. (LO1-3)
- 9. a. Ordinal
 - b. Ratio
 - c. The newer system provided information on the distance between exits. (LO1-5)
- 10. The cell phone provider is nominal level data. The minutes used are ratio level. Satisfaction is ordinal level. (LO1-5)
- 11. If you were using this store as typical of all Barnes & Noble stores then it would be sample data. However, if you were considering it as the only store of interest, then the data would be population data. (LO1-3)
- 12. In a presidential election all votes are counted, thus it is similar to a census of the entire population. However, an "exit" poll consists of only some voters and thus is more like a sample of the entire population. (LO1-3)

13.

	Discrete	Continuous
Qualitative	b. Genderd. Soft drink preferenceg. Student rank in classh. Rating of a finance professor	
Quantitative	c. Sales volume of MP3 playersf. SAT scoresi. Number of home computers	a. Salary e. Temperature

	Discrete	Continuous
Nominal	b. Gender	
	d. Soft drink preference	
Ordinal	g. Student rank in class	
	h. Rating of a finance professor	
Interval	f. SAT scores	e. Temperature
Ratio	c. Sales volume of MP3 players i. Number of home computers	a. Salary

(LO1-4 and LO1-5)

- 14. Answers will vary. (LO1-5)
- 15. As a result of these sample findings, we can conclude that 120/300 or 40% of the white-collar workers would transfer outside the U.S. (LO1-3)
- 16. The obvious majority of consumers (400/500, or 80%) believe the policy is fair. On the strength of these findings, we can anticipate a similar proportion of all customers to feel the same. (LO1-3)

17.	a.
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Manufacturer	Difference
General Motors Corp.	128,133
Chrysler	126,955
Ford Motor Company	112,975
Toyota Motor Sales USA Inc.	96,078
Nissan North America Inc.	72,146
Subaru of America Inc.	61,834
American Honda Motor Co Inc.	38,440
Kia Motors America Inc.	36,313
Hyundai Motor America	30,656
Mercedes-Benz	20,187
Audi of America Inc.	18,970
Mitsubishi Motors N A, Inc.	16,119
Land Rover	13,535
BMW of North America Inc.	12,202
Mazda Motor of America Inc.	7,407
Volvo	5,980
Mini	4573
Porsche Cars NA Inc.	4,337
Tesla	1,850
Lamborghini	372
Ferrari	164
Rolls Royce	19
Bentley	-351
Jaguar	-633
Maserati	-783
Smart	-2,512
Fiat	-3,650
Volkswagen of America Inc.	-6,585

b. Percentage differences with top five and bottom five.

	% change from
Manufacturer	2014
Lamborghini	75%
Land Rover	32%
Mitsubishi Motors N A, Inc.	25%
Subaru of America Inc.	15%
Audi of America Inc.	13%
Volvo	13%
Tesla	12%
Porsche Cars NA Inc.	11%
Mini	10%
Ferrari	9%
Chrysler	8%
Kia Motors America Inc.	7%
Mercedes-Benz	7%
Nissan North America Inc.	6%
Ford Motor Company	5%
General Motors Corp.	5%
Hyundai Motor America	5%
Toyota Motor Sales USA Inc.	5%
BMW of North America Inc.	5%
American Honda Motor Co Inc.	3%
Mazda Motor of America Inc.	3%
Rolls Royce	3%
Volkswagen of America Inc.	-2%
Jaguar	-5%
Maserati	-8%
Fiat	-9%
Bentley	-15%
Smart	-29%

c. (LO1-2)





18. The total amount spent is \$603.86. The percents by group are: 75, 14, 4, and 7, respectively. **(LO1-2)**

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- Earnings increase about \$3 billion per year over the period. However 2008 sees a very large increase and 2009 sees a large decrease.
 Perhaps the earnings were affected by the financial "collapse" during the years 2008-2010.
 Perhaps \$15 billion of 2008 earnings were somehow "advanced" from the next year or two? (LO1-2)
- 20. a. Qualitative variables: Pool, Garage, Township, Mortgage type, Default Quantitative variables: Price, Bedrooms, Size, Baths, FICO Years (LO1-4)

b. Price measured in dollars: Continuous, Ratio scale Agent: Nominal Bedrooms are counted: Discrete, Ordinal??? Ratio scale Size measured in area of square feet: Contiguous, Ratio scale Pool measured as present or not: nominal Garage measured as present or not: nominal Baths are counted: Discrete, Ordinal?? Ratio scale Township is labeled: nominal Mortgage type measures as adjustable or fixed: nominal FICO is an index of a person's ability to pay their bills: ratio Years are counted: ordinal Default: measured as yes or no: nominal (LO1-5)

- 21. a. League is a qualitative variable; the others are quantitative. (LO1-4)
 - b. League is a nominal level variable; the others are ratio level variables. (LO1-5)
- 22. a. Bus Number, Manufacturer, and engine type are qualitative variables, the others are quantitative. **(LO1-4)**
 - b. Bus Number, Manufacturer, and Engine Type nominal level variables; the others are ratio level variables. **(LO1-5)**