

Test Bank for Statistics for Criminology and Criminal Justice 5th Bachman

Solutions to End-of-Chapter Practice Problems

Chapter 2: Levels of Measurement and Aggregation

1. Quantitative; interval/ratio; b. Quantitative; interval/ratio; c. Quantitative; interval/ratio; d. Qualitative; nominal; e. Qualitative; nominal; f. Quantitative; interval/ratio.
2. The categories of a variable measured at the ordinal level of measurement can be ordered, but the distance between the categories is not quantifiable. Categories for interval-level variables have a known and equal distance between them. In addition to this, ratio-level variables have a true and meaningful zero point.
3. Arrest is the independent variable, and future drunk-driving behavior is the dependent variable.
4. Gender is the independent variable, and fear is the dependent variable.
5. The numerator would be the number of victimizations against people 14-18 years old, and the denominator would be the total population of people 14-18 years old.
6. Rates allow you to make comparisons across different places and time using a standardized unit. For example, city A may have reported 100 homicides while city B reported 300 homicides in the past year. However, city A has a population of 100,000 while city B has a population of 500,000. The homicide rate for each city is, respectively, 100 and 20 per 100,000. Without taking the rate, we would prematurely conclude that city A was more violent when in fact city B is more violent.

7.

	<i>f</i>	<i>Proportion</i>	<i>%</i>
Less than \$10	16	0.029	2.9

\$10-\$49	39	0.072	7.2
\$50-\$99	48	0.089	8.9
\$100-\$249	86	0.159	15.9
\$250-\$999	102	0.188	18.8
\$1,000 or more	251	0.463	46.3
	$n = 542$		

8. The units of analysis were the formerly incarcerated individuals. The independent variable was whether one was foreign-born or native-born, and the dependent variable was re-offending.
9. The units of analysis are states. The independent variable would likely be unemployment, and the dependent variable would be crime.
10. The units of analysis would be the police departments.