* 1. **Exercises**

**True or False?** *In Exercises 5–10, determine whether the statement is true or*

*false. If it is false, rewrite it as a true statement.*

**5.** A statistic is a measure that describes a population characteristic.

**A:** False

**7.** It is impossible for the Census Bureau to obtain all the census data about the

population of the United States.

**A:** False

**9.** A population is the collection of some outcomes, responses, measurements,

or counts that are of interest.

**A:** False

**Classifying a Data Set** *In Exercises 11–20, determine whether the data set is*

*a* ***population*** *or a* ***sample****. Explain your reasoning.*

**11.** The height of each player on a school’s basketball team

**A:** Population. It is a population because the data set includes all players and not just a select group such as only underclassmen on the basketball team.

**13.** A survey of 500 spectators from a stadium with 42,000 spectators

**A:** Sample. It is a sample because the data set does not include all 42,000 spectators.

**15.** The cholesterol levels of 20 patients in a hospital with 100 patients

**A:** Sample. It is a sample because the data set does not include all 100 patients

**17.** The final score of each golfer in a tournament

**A:** Population. It is a population because ALL golfers in the tournament are included.

**19.** The political party of every U.S. president

**A:** Population. It is a population because the data set does not take a smaller portion of all U.S. Presidents, but the whole.

**Graphical Analysis** *In Exercises 21–24, use the Venn diagram to identify the*

*population and the sample.*

**21.**

Parties of registered voters in

Warren County

Parties of Warren

County voters who respond to

online survey

**A:** The population in the Parties of registered voters in Warren County. The sample is the Parties of Warren County voters who respond to online surveys.

**23.**