

**LESSON
6.4****Practice A***For use with the lesson "Select and Draw Conclusions from Samples"***Identify the type of sample described. Then tell if the sample is biased.****Explain your reasoning.**

1. A newspaper is conducting a survey to find out people's favorite sport. The newspaper asks every other person attending a baseball game.
2. A pet store wants to know what is people's favorite animal. The store places survey cards at a table for customers to fill out when they enter the store.
3. A health club wants to know how often members attend an aerobics class. The club asks members that have just finished taking an aerobics class.

Find the margin of error for a survey that has the given sample size.**Round your answer to the nearest tenth of a percent.**

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|---------|--------|---------|----------|
| 4. 225 | 5. 100 | 6. 625 | 7. 3600 |
| 8. 4200 | 9. 776 | 10. 390 | 11. 8000 |

Find the sample size required to achieve the given margin of error.**Round your answer to the nearest whole number.**

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|-----------------|-----------------|-----------------|-----------------|
| 12. $\pm 7\%$ | 13. $\pm 6\%$ | 14. $\pm 8\%$ | 15. $\pm 9\%$ |
| 16. $\pm 3.5\%$ | 17. $\pm 2.2\%$ | 18. $\pm 4.8\%$ | 19. $\pm 1.7\%$ |

In Exercises 20 and 21, use the following information.**Internet** In a survey of 802 people, 16% said that they use the Internet or e-mail more than 10 hours per week.

20. What is the margin of error for the survey? Round your answer to the nearest tenth of a percent.
21. Give an interval that is likely to contain the exact percent of all people who use the Internet or e-mail more than 10 hours per week.

In Exercises 22–24, use the following information.**High School Addition** The school board wants to find out how the community feels about a proposed addition to the high school. There are 15,000 people living in the school district. The school board would like to survey 800 people.

22. Describe a method for selecting an unbiased, random sample of people who live in the school district.
23. Describe a method for selecting people who live in the school district that would be biased.
24. Describe a method for selecting people who live in the school district that would not be random.