# Skill: Random Samples
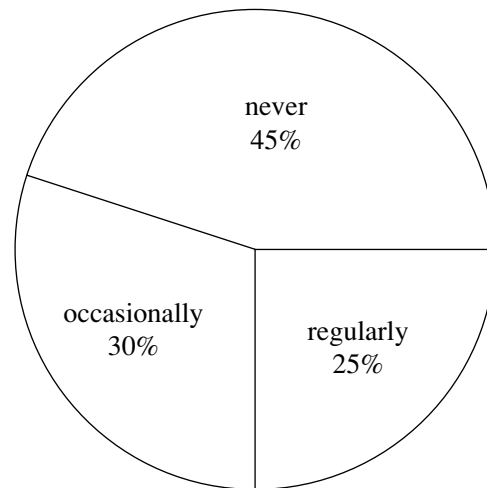
**You want to survey students in your school about their exercise habits. Tell whether Exercises 1–2 are likely to give a random sample of the population. Explain.**

**1.** You select every tenth student on an alphabetical list of the students in your school. You survey the selected students in their first-period classes.

**2.** At lunchtime you stand by a vending machine. You survey every student who buys something from the vending machine.

**In a mall, 2,146 shoppers (age 16 and older) were asked, "How often do you eat at a restaurant in the mall?" Here is how they responded.**

**3.** What population does the sample represent?

**4.** How many people responded in each of the categories?



never
45%

occasionally
30%

regularly
25%

**5.** What is the sample size?

**6.** Can you tell if the sample is random?