## 7-6 Making Predictions

## Main IDEA

Predict the actions of a larger group using a sample.

## BUILD YOUR VOGABULARY (pages 169-170)

A survey is a question or set of questions designed to collect data about a specific group of people.

The population is the $\square$ being studied in a survey.

A sample is a randomly selected group that is surveyed to represent a whole $\square$

## EXAMPLES Make Predictions Using Proportions

Julia asked every sixth person in the school cafeteria to name the kind of activity he or she would like to do for the school's spring outing.

| Spring Outing |  |
| :---: | :---: |
| Activity | Students |
| amusement park | 15 |
| baseball game | 10 |
| water park | 10 |
| art museum | 5 |

(1) What is the probability that a student will prefer an amusement park?

$$
\begin{aligned}
P(\text { amusement park }) & =\frac{\begin{array}{c}
\text { number of students that } \\
\text { prefer an amusement park }
\end{array}}{\text { number of students surveyed }} \\
& =\square
\end{aligned}
$$

So, the probability that a student will prefer an amusement park is


## Review It

Use mental math to solve the proportion

$$
\frac{1}{10}=\frac{x}{100}
$$

(Lesson 6-4).
$\qquad$

Homework
Assignment
Page(s):
Exercises:
b. There are 128 hockey players in Kyle's league. Predict how many of the hockey players prefer cookies for their snack
after a game.


