

Lesson 1 Skills Practice

Make Predictions

For Exercise 1–4, use the table and the following information. A survey of students' favorite sports was taken from a random sample of students in a school. The results are shown in the table.

Students' Favorite Sports	
Soccer	8
Baseball/Softball	3
Volleyball	5
Track & Field	4

1. What is the size of the sample?
20

2. What is the probability that a student will prefer soccer?

$$\frac{8}{20}$$

3. What is the probability that a student will prefer volleyball?

$$\frac{5}{20}$$

4. There are 550 students in the school. Predict how many students at the school prefer track and field.

$$550 \times 4 = 2200$$

Use the percent equation to help you solve.

5. **GARDENING** A survey showed that 74% of a nursery's mail-order customers spent more than \$100 on plants each spring. Predict how many of 125,000 mail-order customers will spend less than \$100 on plants next spring.

$$.74 \times 125000 = 92500$$

6. **SAVING MONEY** A survey of high school students with jobs asked whether the students saved some of the money they earned. 82% of the students said they saved some money. Out of 340 students, predict how many would save some of their earnings.

$$.82 \times 340 = 278.8$$

7. **TRAVEL COMPANY CUSTOMERS** A survey showed that 55% of a travel company's customers were planning an overseas vacation the following year. Predict how many of the travel company's 12,400 travelers will vacation overseas the following year.

$$.55 \times 12,400 = 6820$$