

Lesson 1 Problem-Solving Practice

Make Predictions

MOVIES For Exercises 1–3, use the table of results of Jeremy’s survey of favorite kinds of movies.

Favorite Movie Type	
Type	People
Drama	12
Foreign	3
Comedy	20
Action	15

<p>1. MOVIES How many people did Jeremy use for his sample?</p>	<p>2. If Jeremy were to ask any person to name his or her favorite type of movie, what is the probability that it would be comedy?</p>
<p>3. If Jeremy were to survey 250 people, how many would you predict would name comedy?</p>	<p>4. HAIRCUT Survey results show that 68% of people tip their hairdresser when they get a haircut. Predict how many people out of 150 tip their hairdresser.</p>
<p>5. GOLF A survey showed that 28% of adults play golf in their free time. Out of 1,550 adults, predict how many would say they play golf.</p>	<p>6. GOLF Use the information in Exercise 5 to predict how many adults out of 1,550 would say they do not play golf.</p>

Lesson 1 Homework Practice

Make Predictions

QUIZ SHOW For Exercises 1 and 2, use the following information. On a quiz show, a contestant correctly answered 9 of the last 12 questions.

- Based on these results, find the probability of the contestant correctly answering the next question.
- Suppose the contestant continues on the show and tries to correctly answer 24 questions. About how many questions would you predict the contestant to correctly answer?

CHORES For Exercises 3–6, use the table to predict the number of students out of 528 that would say each of the following was their least favorite chore.

Least Favorite Chore	
Chore	Number of Students
Clean my room	7
Take out the garbage	4
Wash dishes	5
Walk the dog	3
Vacuum or dust	5

- clean my room
- walk the dog
- wash dishes
- take out the garbage

7. **BOOK** The results of a survey asking teens their favorite type of book to read is shown.

- Out of 250 teens, predict how many would choose mystery as their favorite type of book to read.
- Out of 250 teens, predict how many would choose adventure as their favorite type of book to read.
- Out of 250 teens, predict how many would choose science fiction as their favorite type of book to read.

Favorite Type of Book

