

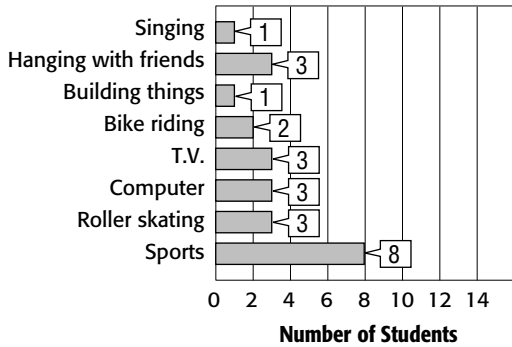
**9-6**

**Practice: Word Problems**

*Theoretical and Experimental Probability*

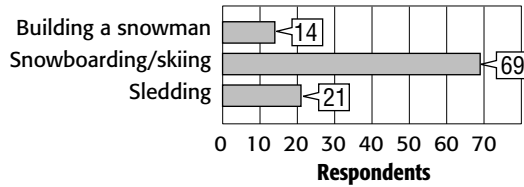
**HOBBIES** For Exercises 1–3, use the graph of a survey of 24 seventh grade students asked to name their favorite hobby.

**What is your favorite hobby?**



**TELEVISION** For Exercises 5 and 6, use the graph of a survey with 104 responses in which respondents were asked about their favorite winter activities.

**What is your favorite winter activity?**



<p><b>1.</b> What is the probability that a student's favorite hobby is roller skating?</p>	<p><b>2.</b> Suppose 200 seventh grade students were surveyed. How many can be expected to say that roller skating is their favorite hobby?</p>
<p><b>3.</b> Suppose 60 seventh grade students were surveyed. How many can be expected to say that bike riding is their favorite hobby?</p>	<p><b>4. MARBLES</b> A bag contains 5 blue, 4 red, 9 white, and 6 green marbles. If a marble is drawn at random and replaced 100 times, how many times would you expect to draw a green marble?</p>
<p><b>5.</b> What is the probability that someone's favorite winter activity is building a snowman? Write the probability as a fraction.</p>	<p><b>6.</b> If 500 people had responded, how many would have been expected to list sledding as their favorite winter activity? Round to the nearest whole person.</p>