	<b>Probability Quiz Review</b>	Name:	
LESS		Period:	· · · · · · · · · · · · · · · · · · ·
11-	Probability		
	rmine whether each event is impossibl ot, likely, or certain.	e, unlikely, as likely	
	olling an even number on a number cube hrough 6	labeled 1	
•	picking a card with a vowel on it from a box each letter of the alphabet is written on a c		
	spinning a number greater than 2 on a spir sections marked 1 through 10	nner with 10 equal	
	drawing a red marble from a bag of black, marbles	blue, and green	· .
5. f	lipping a coin and getting heads or tails		
	olling a number that is less than three 5 tir on a number cube labeled 1 through 6	mes in a row	
LESS	ON .		
11-		•	
	the experimental probability. Write you tion, as a decimal, and as percent.	ır answer as a	
þ	Jaclyn is a soccer goalie. If she has 21 out bractice, what is the experimental probabilinave a save on the next shot on goal?		· · · · · · · · · · · · · · · · · · ·
þ	f Harris hit the bull's-eye 3 out of 8 times a practice, what is the experimental probabilinit the bull's-eye on his next try?		
þ	Nathan inspects new pants at a factory. Of pants he inspected 49 were acceptable. We probability that the next pair of pants will be	hat is the experimental	•
s p	Sara has gone to work for 60 days. On 39 arrived at work before 8:30 A.M. On the reside arrived after 8:30 A.M. What is the expension of the same at work after the day she goes to work?	t of the days erimental	

#### Experimental Probability (continued)

#### Solve.

- 11. After a movie premiere, 99 of the first 130 people surveyed said they liked the movie.
  - a. What is the experimental probability that the next person surveyed will say he or she liked the movie?
  - b. What is the experimental probability that the next person surveyed will say he or she did not like the movie?
- 12. For the past 30 days, Naomi has been recording the number of customers at her restaurant between 10 A.M. and 11 A.M. During that hour, there have been fewer than 20 customers on 25 out of 30 days.
  - a. What is the experimental probability that there will be fewer than 20 customers on the thirty-first day?
  - b. What is the experimental probability that there will be 20 or more customers on the thirty-first day?
- 13. For the past four weeks, Nestor has been recording the daily high temperatures. During that time, the high temperature has been below 45° on 20 out of 28 days. What is the experimental probability that the high temperature will be below 45° on the twenty-ninth day?

LESSON 11-4

### Theoretical Probability

Find the probability of each event. Write your answer as a fraction, as a decimal, and as a percent. Round to the nearest tenth of a percent.

- randomly choosing a white counter from a bag of 12 red counters, 12 white counters, 12 green counters, and 12 blue counters
- 15. tossing two fair coins and having one land on tails and one land on heads
- 16. rolling a number greater than 1 on a fair number cube

## Theoretical Probability (continued)

17.	randomly choosing an orange 4 blue disks and 12 orange d	e disk from a bag of 14 black disks, isks	
18.	randomly choosing 1 of the 6	R's from a bag of 100 letter tiles	
19.	spinning a number less than sections labeled 1–8	7 on a fair spinner with 8 equal	
and		h stars, 10 cards with squares, the probability of each event om.	
20.	square	21. circle	
22.	star or circle	23. not circle or square _	
ran pro	domly selects one student to bability of each event.	in Ms. Wiley's class. Ms. Wiley to solve a problem. Find the	
<b>24</b> .	selecting a boy	25. selecting a girl	· <del></del>
LES			
11	-6 Probability of Indepe	ndent and Dependent Events	
	cide whether each set of eve plain your answer.	ents is independent or dependent.	
26.	A student spins a spinner and	d chooses a Scrabble <sup>®</sup> tile	
27.	A boy chooses a sock from a second sock without replacing	drawer of socks, then chooses a g the first.	
			<u> </u>

# Probability of Independent and Dependent Events (continued)

28.	A student picks a raffle ticket from a box, replaces the ticket, then picks a second raffle ticket.
Fin	d the probability of each set of independent events.
29.	picking a red checker from a bag of 9 black checkers and 6 red checkers, replacing it, and picking another red checker
30.	picking a black checker from a bag of 9 black checkers and 6 red checkers, replacing it, and picking a red checker
31.	rolling a 1, 2, or 3 on the first roll of a 1–6 number cube and rolling a 4, 5, or 6 on the second roll of the same cube