

CHAPTER **At-Home Practice**
11 **Probability**

Give the probability of each outcome or event.

1. rolling a 2 on a number cube _____
2. rolling an odd number on a number cube _____

An experiment consists of reaching into a bag, pulling out a handful of mixed coins, and counting the number of pennies. The table gives the probability of each outcome.

Outcome	0	1	2	3
Probability	0.14	0.36	0.41	0.09

3. What is the probability of pulling out exactly 1 penny? _____
4. What is the probability of pulling out at least 1 penny? _____
5. What is the probability of not pulling out a penny? _____

Maria is counting the number of red cars, black cars, and white cars that pass her house. Her count is recorded in the table.

Outcome	Red	Black	White
Number of cars	32	8	24

6. Estimate the probability that the next car she sees will be white. _____
7. Estimate the probability that the next car will be black or white. _____
8. Estimate the probability that the next car will not be white. _____

An experiment consists of rolling a fair number cube and flipping a coin. Find each probability.

9. rolling a 5 _____
10. rolling a number less than 5 and getting a heads _____

A bag contains 7 red marbles, 2 blue marbles, and 1 green marble. Find each probability.

11. Find the probability of drawing a red marble, replacing it, and drawing another red marble. _____
12. Find the probability of drawing two red marbles if you do not replace the first marble. _____

Answers: 1. $\frac{6}{1}$ 2. $\frac{2}{1}$ 3. 0.36 4. 0.86 5. 0.14 6. $\frac{8}{3}$ 7. $\frac{2}{1}$ 8. $\frac{8}{5}$ 9. $\frac{6}{1}$ 10. $\frac{12}{4}$ 11. $\frac{3}{1}$ 12. $\frac{10}{7}$ 13. $\frac{10}{7}$ 14. $\frac{10}{7}$ 15. $\frac{100}{49}$

CHAPTER **Family Fun**
11 **Probability Word Search**

Directions

- Fill in the blanks below with the appropriate vocabulary words.
- Locate each of the words in the word search puzzle and circle it.
- The player who finds all seven words first wins the game.

1. An _____ is a set of one or more outcomes.
2. The _____ of an event is a number from 0 to 1 that tells how likely the event is to happen.
3. An _____ is an activity in which results are observed.
4. A result of an experiment is an _____.
5. The _____ is the set of all possible outcomes to an experiment.
6. Each observation of a test is called a _____.
7. _____ probability is the ratio of the number of times an event occurs to the number of trials.

E	C	A	P	S	E	L	P	M	A	S	X	W	O	E
S	X	K	I	E	E	F	H	L	E	A	T	B	U	J
I	M	P	O	S	S	I	B	L	E	Z	I	N	T	L
M	H	A	E	H	L	O	E	J	T	M	I	G	C	B
U	S	B	M	R	H	U	P	W	S	A	F	H	O	M
L	H	Q	D	A	I	M	G	L	T	Y	H	X	M	U
A	L	Z	T	N	E	M	I	R	E	P	X	E	E	L
T	B	J	K	D	O	G	E	V	E	N	T	J	N	A
I	L	M	H	O	E	C	A	N	E	P	R	D	L	L
O	P	S	I	M	E	T	K	X	T	N	I	D	H	M
N	T	E	L	W	O	D	A	N	T	A	A	K	Q	O
A	E	H	M	P	R	O	B	A	B	I	L	I	T	Y

Answers: 1. event 2. probability 3. experiment 4. outcome 5. sample space 6. trial 7. Experimental