

# School-Home Letter

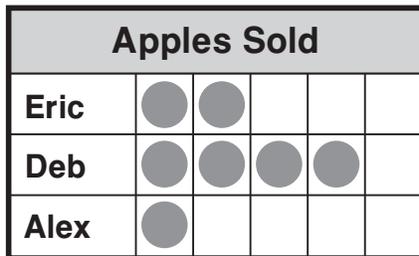
## Dear Family,

My class started Chapter 10 this week. In this chapter, I will learn about collecting data, making graphs, and interpreting the data.

Love, \_\_\_\_\_

### Vocabulary

**picture graph** A graph that uses pictures to show data



Key: Each ● stands for 1 apple.

**bar graph** A graph that uses bars to show data

### Home Activity

Take your child on a walk in your neighborhood. Help your child make a tally chart to record how many people you see driving, walking, and biking. Then talk with your child about the information that is in your tally chart.

#### How People Are Moving

How Moving	Tally
driving	
walking	
biking	

### Literature

Reading math stories reinforces learning. Look for these books at the library.

**Tables and Graphs of Healthy Things**  
by Joan Freese. Gareth Stevens Publishing, 2008.

**Lemonade for Sale**  
by Stuart J. Murphy.  
Harper Collins, 1998.



# Carta para la casa

## Querida familia:

Mi clase comenzó el Capítulo 10 esta semana. En este capítulo, aprenderé a recolectar datos, hacer gráficas e interpretar datos.

Con cariño, \_\_\_\_\_

### Vocabulario

**pictografía** una gráfica que usa ilustraciones para mostrar datos

Manzanas vendidas					
Eric	●	●			
Deb	●	●	●	●	
Alex	●				

Clave: Cada ● representa 2 manzanas.

**gráfica de barras** una gráfica que usa barras para mostrar datos

### Actividad para la casa

Lleve a pasear a su hijo por el vecindario. Ayúdelo a crear una tabla de conteo para anotar cuántas personas ven manejando, caminando y montando en bicicleta. Luego, conversen sobre la información que hay en la tabla de conteo.

#### Cómo se mueve la gente

Se mueven	Conteo
manejando	II
caminando	
en bicicleta	

### Literatura

Leer cuentos de matemáticas refuerza los conceptos. Busque estos libros en la biblioteca.

#### Table and Graphs of Healthy Things

por Joan Freese.  
Gareth Stevens  
Publishing, 2008.

#### Lemonade for Sale

por Stuart J. Murphy.  
Harper Collins, 1998.

Name \_\_\_\_\_

## Collect Data



COMMON CORE STANDARD MACC.2.MD.4.10

Represent and interpret data.

1. Take a survey. Ask 10 classmates how they got to school. Use tally marks to show their choices.

\_\_\_\_\_

2. How many classmates rode in a bus to school?

\_\_\_\_\_ classmates

3. How many classmates rode in a car to school?

\_\_\_\_\_ classmates

4. In which way did the fewest classmates get to school?

\_\_\_\_\_

5. In which way did the most classmates get to school?

\_\_\_\_\_

6. Did more classmates get to school by walking or by riding in a car?

\_\_\_\_\_

How many more?

\_\_\_\_\_ more classmates

How We Got to School	
Way	Tally
walk	
bus	
car	
bike	

**Lesson Check** (MACC.2.MD.4.10)

1. Use the tally chart. Which color did the fewest children choose?

- blue
- green
- red
- yellow

Favorite Color	
Color	Tally
blue	
green	
red	
yellow	

**Spiral Review** (MACC.2.MD.2.5, MACC.2.MD.2.6, MACC.2.MD.3.7, MACC.2.MD.3.8)

2. Which group of coins has a value of \$1.00? (Lesson 7.5)

- 10 pennies
- 10 nickels
- 10 dimes
- 10 quarters

3. Jared has two ropes. Each rope is 9 inches long. How many inches of rope does he have in all? (Lesson 8.5)

- 10 inches
- 16 inches
- 18 inches
- 21 inches

4. The clock shows the time Lee got to school. At what time did she get to school? (Lesson 7.11)



- 3:40 A.M.
- 8:15 A.M.
- 3:40 P.M.
- 8:15 P.M.

5. Liza finished studying at half past 3. What time did Liza finish studying? (Lesson 7.10)

- 3:30
- 3:15
- 2:45
- 2:15

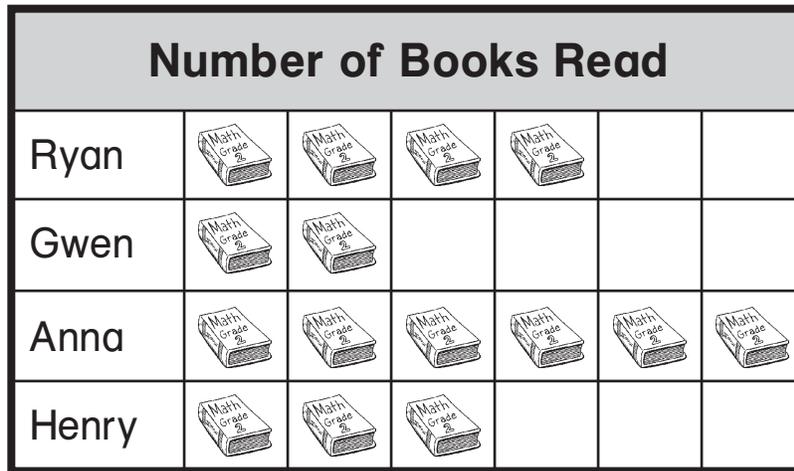
**Read Picture Graphs**



COMMON CORE STANDARD MACC.2.MD.4.10

Represent and interpret data.

Use the picture graph to answer the questions.



**Key: Each stands for 1 book.**

- How many books in all did Henry and Anna read? \_\_\_\_\_ books

---

- How many more books did Ryan read than Gwen? \_\_\_\_\_ more books

---

- How many fewer books did Gwen read than Anna? \_\_\_\_\_ fewer books

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- How many books did the four children read in all? \_\_\_\_\_ books

**PROBLEM SOLVING** REAL WORLD

Use the picture graph above. Write or draw to explain.

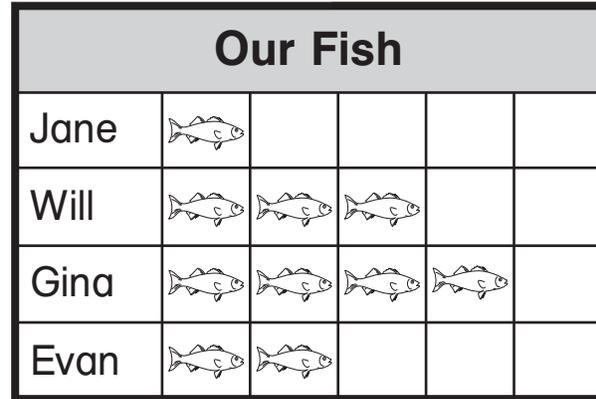
- Carlos read 4 books. How many children read fewer books than Carlos?

\_\_\_\_\_ children

**Lesson Check** (MACC.2.MD.4.10)

1. Use the picture graph. Who has the most fish?

- Jane
- Will
- Gina
- Evan



**Key:** Each  stands for 1 fish.

**Spiral Review** (MACC.2.MD.1.1, MACC.2.MD.3.7, MACC.2.MD.3.8)

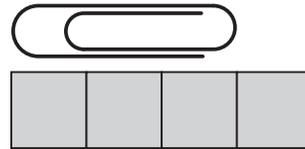
2. What is the time on this clock?

(Lesson 7.9)



- 1:55
- 2:55
- 3:05
- 11:15

3. Each unit cube is about 1 centimeter long. Which is the best estimate for the length of the paper clip? (Lesson 9.1)



- 1 centimeter
- 3 centimeters
- 4 centimeters
- 8 centimeters

4. What is the total value of this group of coins? (Lesson 7.2)



- 61¢
- 60¢
- 56¢
- 52¢

Name \_\_\_\_\_

# Make Picture Graphs



COMMON CORE STANDARD MACC.2.MD.4.10  
Represent and interpret data.

1. Use the tally chart to complete the picture graph.

Draw a ☺ for each child.

Favorite Cookie	
Cookie	Tally
chocolate	
oatmeal	
peanut butter	
shortbread	

Favorite Cookie					
chocolate					
oatmeal					
peanut butter					
shortbread					

Key: Each ☺ stands for 1 child.

2. How many children chose chocolate? \_\_\_\_\_ children

3. How many fewer children chose oatmeal than peanut butter? \_\_\_\_\_ fewer children

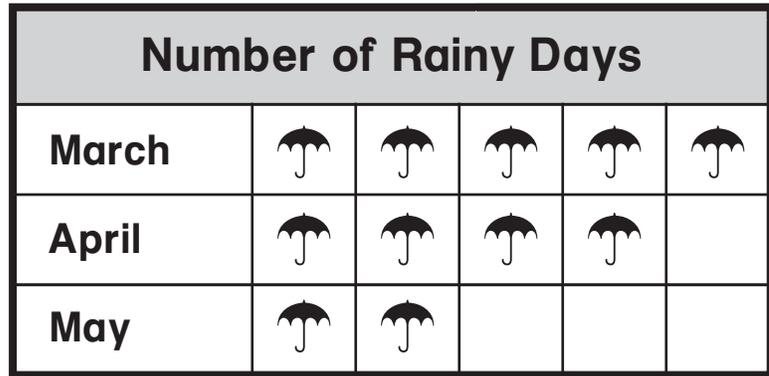
4. Which cookie did the most children choose?  
\_\_\_\_\_

5. How many children in all chose a favorite cookie? \_\_\_\_\_ children

6. How many children chose oatmeal or shortbread? \_\_\_\_\_ children

**Lesson Check** (MACC.2.MD.4.10)

1. Use the picture graph.  
How many more rainy days were there in April than in May?



Key: Each  stands for 1 day.

- 2
- 4
- 6
- 12

**Spiral Review** (MACC.2.MD.1.1, MACC.2.MD.3.8)

2. Rita has one \$1 bill, 2 quarters, and 3 dimes. What is the total value of Rita's money? (Lesson 7.7)

- \$1.23
- \$1.42
- \$1.35
- \$1.80

3. Lucas put 4 quarters and 3 nickels into his coin bank. How much money did Lucas put into his coin bank? (Lesson 7.6)

- \$1.15
- \$1.30
- \$1.25
- \$1.75

4. Use a centimeter ruler. Which is the best choice for the length of this string? (Lesson 9.3)



- 2 centimeters
- 4 centimeters
- 6 centimeters
- 10 centimeters

5. What is the total value of this group of coins? (Lesson 7.1)



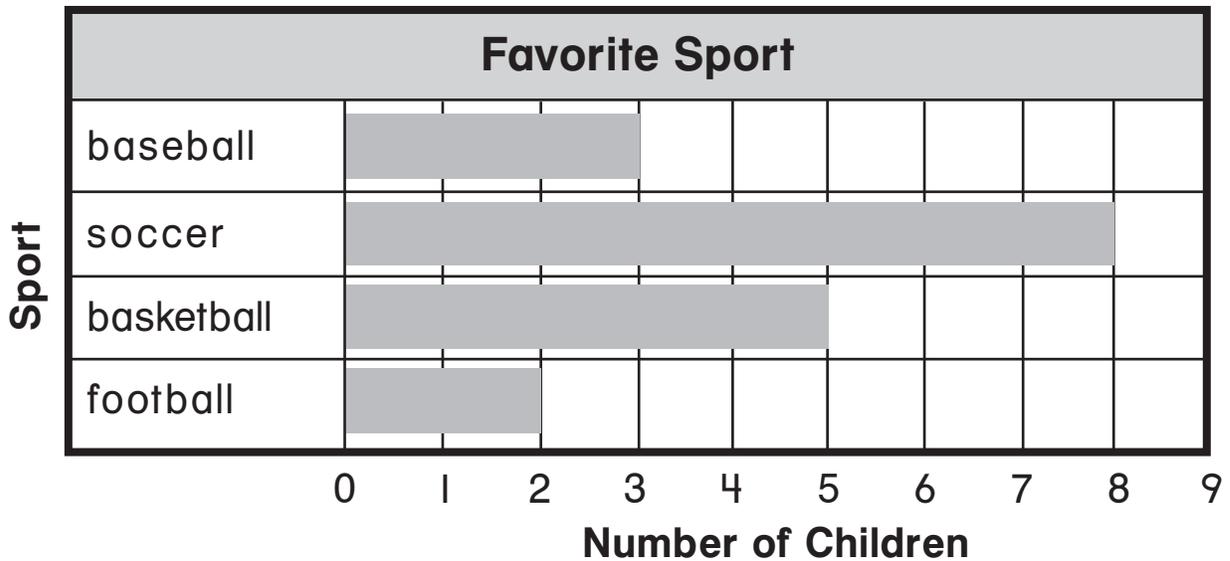
- 8¢
- 17¢
- 21¢
- 26¢

**Read Bar Graphs**



**COMMON CORE STANDARD** MACC.2.MD.4.10  
Represent and interpret data.

Use the bar graph.



1. How many children chose basketball? \_\_\_\_\_ children

---

2. Which sport did the most children choose? \_\_\_\_\_

---

3. How many more children chose basketball than baseball? \_\_\_\_\_ more children

---

4. Which sport did the fewest children choose? \_\_\_\_\_

---

5. How many children chose a sport that was not soccer? \_\_\_\_\_ children

**PROBLEM SOLVING**

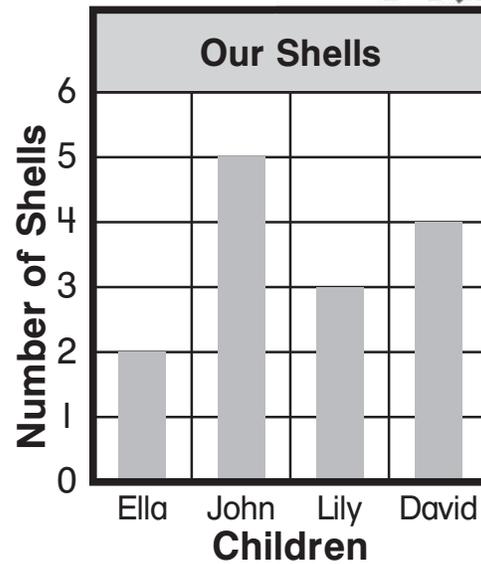


6. How many children chose baseball or basketball? \_\_\_\_\_ children

**Lesson Check** (MACC.2.MD.4.10)

1. Use the bar graph. How many shells do the children have in all?

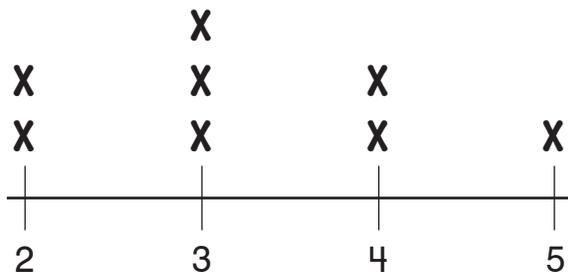
- 10
- 12
- 14
- 16



**Spiral Review** (MACC.2.MD.1.1, MACC.2.MD.3.8, MACC.2.MD.4.9)

2. Use the line plot. How many twigs are 3 inches long? (Lesson 8.9)

- 8
- 5
- 4
- 3



Lengths of Twigs in Inches

3. Use a centimeter ruler. Which is the best choice for the length of the yarn? (Lesson 9.3)



- 7 centimeters
- 4 centimeters
- 2 centimeters
- 1 centimeter

4. Noah buys a pencil. He uses 1 quarter and 2 nickels to pay. How much money does the pencil cost? (Lesson 7.4)

- 45¢
- 35¢
- 30¢
- 27¢

Name \_\_\_\_\_

# Make Bar Graphs



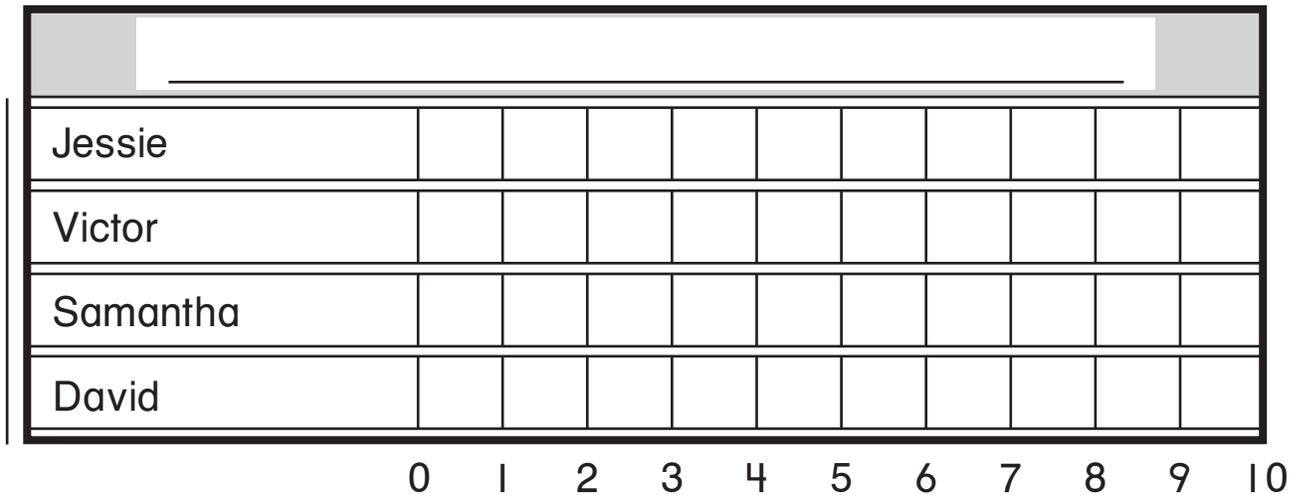
COMMON CORE STANDARD MACC.2.MD.4.10  
Represent and interpret data.

Maria asked her friends how many hours they practice soccer each week.

- Jessie practices for 3 hours.
- Victor practices for 2 hours.
- Samantha practices for 5 hours.
- David practices for 6 hours.

1. Write a title and labels for the bar graph.

2. Draw bars in the graph to show the data.



3. Which friend practices soccer for the most hours each week?

\_\_\_\_\_

## PROBLEM SOLVING



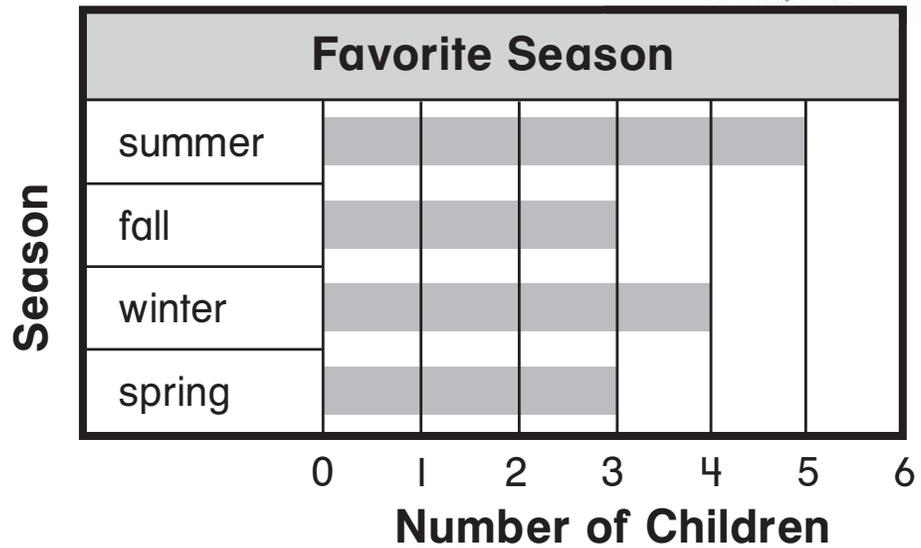
4. Which friends practice soccer for fewer than 4 hours each week?

\_\_\_\_\_

## Lesson Check (MACC.2.MD.4.10)

1. Use the bar graph.  
How many more children chose summer than spring?

- 2  
 3  
 5  
 8

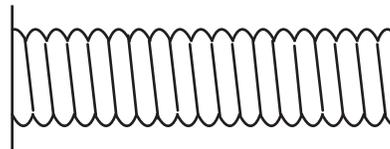


## Spiral Review (MACC.2.MD.1.1, MACC.2.MD.2.5, MACC.2.MD.2.6, MACC.2.MD.3.7, MACC.2.MD.3.8)

2. Rachel's chain is 22 centimeters long. She takes 9 centimeters off the chain. How long is Rachel's chain now? (Lesson 9.4)

- 31 centimeters  
 29 centimeters  
 17 centimeters  
 13 centimeters

3. Use an inch ruler. What is the length of the string to the nearest inch? (Lesson 8.4)



- 1 inch                       4 inches  
 2 inches                       6 inches

4. Gail finished studying at quarter past 1. What time did Gail finish studying? (Lesson 7.10)

- 1:15  
 3:50  
 4:30  
 5:45

5. Jill has two \$1 bills, 1 quarter, and 1 nickel. How much money does Jill have? (Lesson 7.7)

- \$2.35  
 \$2.30  
 \$2.05  
 \$1.30

Name \_\_\_\_\_

## PROBLEM SOLVING Lesson 10.6

### Problem Solving • Display Data



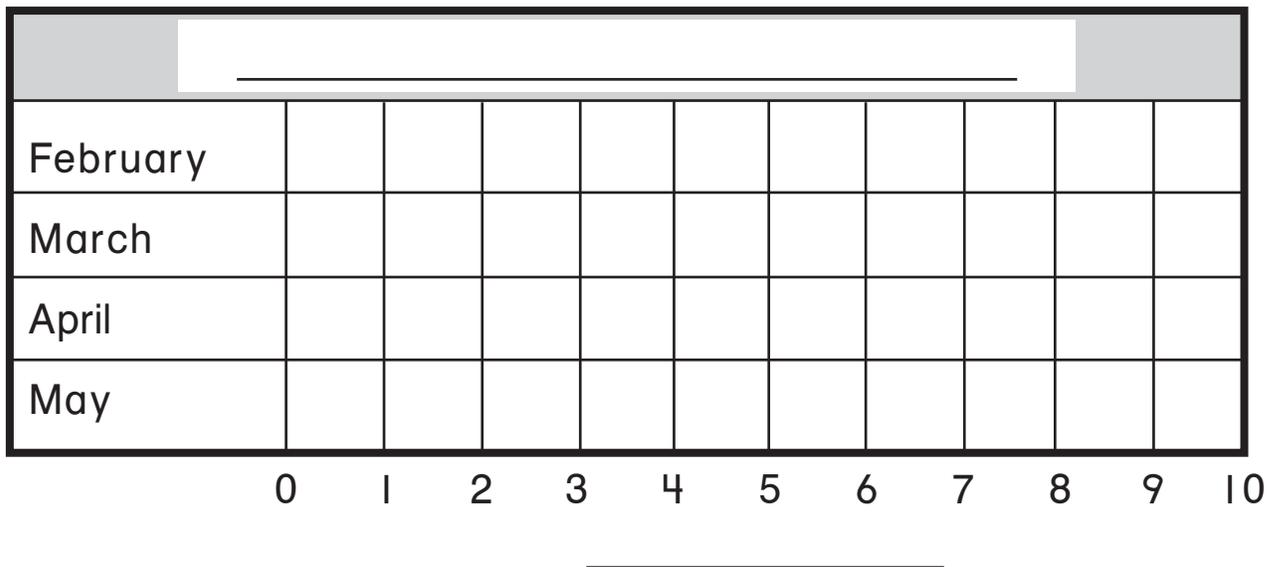
COMMON CORE STANDARD MACC.2.MD.4.10

Represent and interpret data.

Make a bar graph to solve the problem.

1. The list shows the number of books that Abby read each month. Describe how the number of books she read changed from February to May.

February	8 books
March	7 books
April	6 books
May	4 books



The number of books \_\_\_\_\_

2. How many books in all did Abby read in February and March? \_\_\_\_\_ books

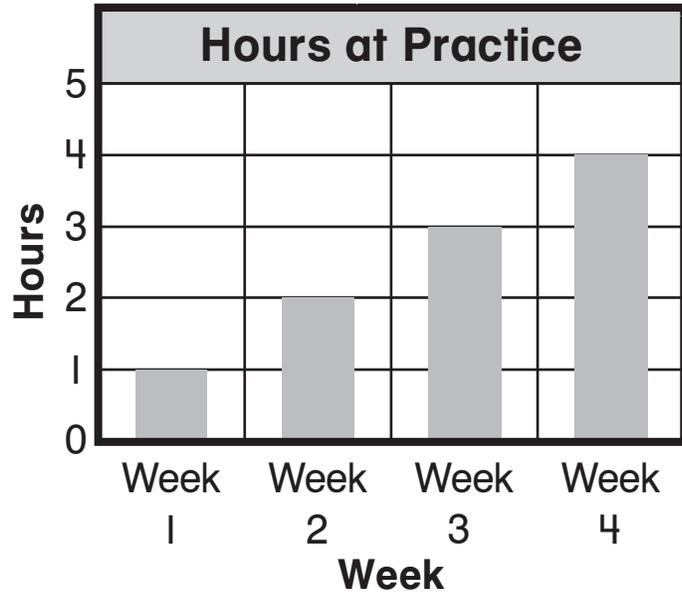
3. How many fewer books did Abby read in April than in February? \_\_\_\_\_ fewer books

4. In which months did Abby read fewer than 7 books? \_\_\_\_\_

**Lesson Check** (MACC.2.MD.4.10)

1. Use the bar graph. Which of the following describes how the number of hours changed from Week 1 to Week 4?

- The number of hours decreased.
- The number of hours increased and then decreased.
- The number of hours increased.
- The number of hours stayed the same.



**Spiral Review** (MACC.2.MD.1.3, MACC.2.MD.3.8)

2. The string is about 10 centimeters long. Which is the best estimate for the length of the feather? (Lesson 9.2)



- 2 centimeters
- 5 centimeters
- 10 centimeters
- 20 centimeters

3. What is the total value of this group of coins? (Lesson 7.3)



- 55¢
- 50¢
- 40¢
- 28¢

4. Rick has one \$1 bill, 2 dimes, and 3 pennies. How much money does Rick have? (Lesson 7.6)

- \$1.72
- \$1.53
- \$1.40
- \$1.23

Name \_\_\_\_\_

## Chapter 10 Extra Practice

### Lesson 10.2 (pp. 473–476)

Use the picture graph.

Favorite Flavor					
vanilla	😊	😊	😊		
chocolate	😊	😊	😊	😊	
strawberry	😊	😊	😊	😊	😊
mint	😊	😊			

Key: Each 😊 stands for 1 child.

- How many children chose chocolate? \_\_\_\_\_ children
- Which flavor did the most children choose? \_\_\_\_\_
- How many children in all chose a favorite flavor? \_\_\_\_\_ children

### Lesson 10.3 (pp. 477–479)

- Use the tally chart to complete the picture graph.  
Draw a ● for each book.

Number of Books Read	
Name	Tally
Maya	
Gabe	
Tia	
Cathy	

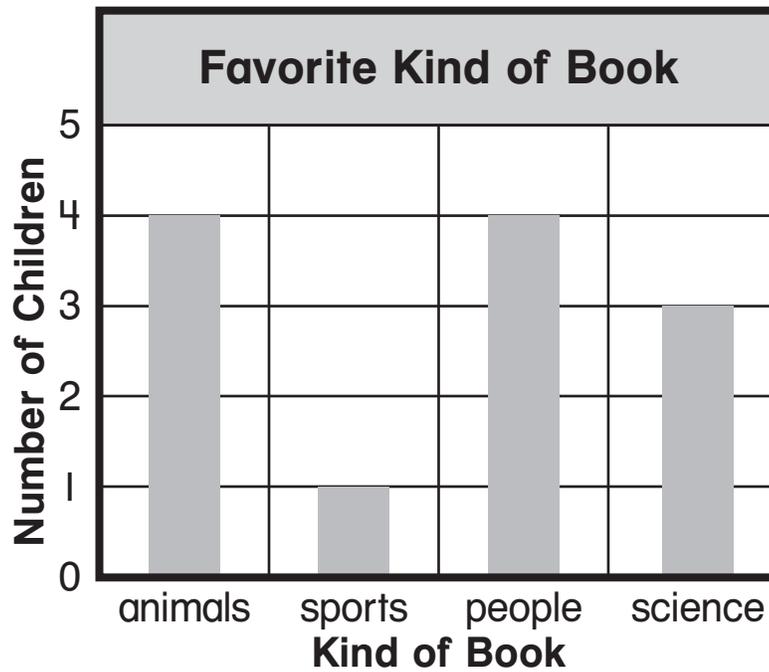
Number of Books Read					
Maya					
Gabe					
Tia					
Cathy					

Key: Each ● stands for 1 book.

- Who read more than 4 books? \_\_\_\_\_

**Lesson 10.4** (pp. 481–484)

Use the bar graph.



- Which kind of book did the fewest children choose? \_\_\_\_\_
- How many children in all chose a favorite kind of book? \_\_\_\_\_ children

**Lesson 10.5** (pp. 485–488)

Robin has 5 red beads, 7 blue beads, 8 yellow beads, and 5 green beads.

- Write a title and labels.  
Draw bars to show the data.

