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

<table>
<thead>
<tr>
<th>Apples Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eric</td>
</tr>
<tr>
<td>Deb</td>
</tr>
<tr>
<td>Alex</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>How Moving</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>driving</td>
<td>🚗 🚗</td>
</tr>
<tr>
<td>walking</td>
<td>🚶‍♂️ ⬅ ⬅</td>
</tr>
<tr>
<td>biking</td>
<td>🚴</td>
</tr>
</tbody>
</table>

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


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

<table>
<thead>
<tr>
<th>Manzanas vendidas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eric</strong></td>
</tr>
<tr>
<td><strong>Deb</strong></td>
</tr>
<tr>
<td><strong>Alex</strong></td>
</tr>
</tbody>
</table>

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. Ayúdalo 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.

<table>
<thead>
<tr>
<th>Cómo se mueve la gente</th>
<th>Se mueven</th>
<th>Conteo</th>
</tr>
</thead>
<tbody>
<tr>
<td>manejando</td>
<td>🚗-Ass</td>
<td>11</td>
</tr>
<tr>
<td>caminando</td>
<td>🚶-III</td>
<td>111</td>
</tr>
<tr>
<td>en bicicleta</td>
<td>🚴-II</td>
<td>11</td>
</tr>
</tbody>
</table>

Literatura

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


Collect Data

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

<table>
<thead>
<tr>
<th>Way</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>walk</td>
<td></td>
</tr>
<tr>
<td>bus</td>
<td></td>
</tr>
<tr>
<td>car</td>
<td></td>
</tr>
<tr>
<td>bike</td>
<td></td>
</tr>
</tbody>
</table>

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
Lesson Check

1. Use the tally chart. Which color did the fewest children choose?
   - blue
   - green
   - red
   - yellow

<table>
<thead>
<tr>
<th>Favorite Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>blue</td>
</tr>
<tr>
<td>green</td>
</tr>
<tr>
<td>red</td>
</tr>
<tr>
<td>yellow</td>
</tr>
</tbody>
</table>

Spiral Review

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
   - 18 inches
   - 16 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.

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

Use the picture graph to answer the questions.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryan</td>
</tr>
<tr>
<td>Gwen</td>
</tr>
<tr>
<td>Anna</td>
</tr>
<tr>
<td>Henry</td>
</tr>
</tbody>
</table>

Key: Each book stands for 1 book.

1. How many books in all did Henry and Anna read? _______ books

2. How many more books did Ryan read than Gwen? _______ more books

3. How many fewer books did Gwen read than Anna? _______ fewer books

4. How many books did the four children read in all? _______ books

PROBLEM SOLVING

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

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

_______ children
Lesson Check

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

- Jane
- Will
- Gina
- Evan

<table>
<thead>
<tr>
<th>Our Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane</td>
</tr>
<tr>
<td>Will</td>
</tr>
<tr>
<td>Gina</td>
</tr>
<tr>
<td>Evan</td>
</tr>
</tbody>
</table>

Key: Each fish stands for 1 fish.

Spiral Review

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)

- $0.61
- $0.60
- $0.56
- $0.52

P226 two hundred twenty-six
**Make Picture Graphs**

1. Use the tally chart to complete the picture graph. Draw a ☺ for each child.

<table>
<thead>
<tr>
<th>Favorite Cookie</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>chocolate</td>
<td></td>
</tr>
<tr>
<td>oatmeal</td>
<td></td>
</tr>
<tr>
<td>peanut butter</td>
<td></td>
</tr>
<tr>
<td>shortbread</td>
<td></td>
</tr>
</tbody>
</table>

**Favorite Cookie**

<table>
<thead>
<tr>
<th>Favorite Cookie</th>
</tr>
</thead>
<tbody>
<tr>
<td>chocolate</td>
</tr>
<tr>
<td>oatmeal</td>
</tr>
<tr>
<td>peanut butter</td>
</tr>
<tr>
<td>shortbread</td>
</tr>
</tbody>
</table>

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

1. Use the picture graph. How many more rainy days were there in April than in May?
   - 2
   - 4
   - 6
   - 12

<table>
<thead>
<tr>
<th>Number of Rainy Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>March</td>
</tr>
<tr>
<td>April</td>
</tr>
<tr>
<td>May</td>
</tr>
</tbody>
</table>

Key: Each 🌧️ stands for 1 day.

Spiral Review

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

Use the bar graph.

<table>
<thead>
<tr>
<th>Favorite Sport</th>
<th>Number of Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>baseball</td>
<td>2</td>
</tr>
<tr>
<td>soccer</td>
<td>8</td>
</tr>
<tr>
<td>basketball</td>
<td>5</td>
</tr>
<tr>
<td>football</td>
<td>1</td>
</tr>
</tbody>
</table>

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

6. How many children chose baseball or basketball?  __________ children
Lesson Check

1. Use the bar graph. How many shells do the children have in all?
   - 10
   - 12
   - 14
   - 16

Spiral Review

2. Use the line plot. How many twigs are 3 inches long? (Lesson 8.9)
   - 8
   - 5
   - 4
   - 3

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¢
Make Bar Graphs

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?

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

1. Use the bar graph. How many more children chose summer than spring?
   - ○ 2
   - ○ 3
   - ○ 5
   - ○ 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

Spiral Review

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
Problem Solving • Display 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.

<table>
<thead>
<tr>
<th>Month</th>
<th>Books</th>
</tr>
</thead>
<tbody>
<tr>
<td>February</td>
<td>8 books</td>
</tr>
<tr>
<td>March</td>
<td>7 books</td>
</tr>
<tr>
<td>April</td>
<td>6 books</td>
</tr>
<tr>
<td>May</td>
<td>4 books</td>
</tr>
</tbody>
</table>

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

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

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
Lesson 10.2 (pp. 473–476)

Use the picture graph.

<table>
<thead>
<tr>
<th>Favorite Flavor</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>vanilla</td>
<td>😊😊😊</td>
</tr>
<tr>
<td>chocolate</td>
<td>😊😊😊😊</td>
</tr>
<tr>
<td>strawberry</td>
<td>😊😊😊😊😊</td>
</tr>
<tr>
<td>mint</td>
<td>😊😊</td>
</tr>
</tbody>
</table>

Key: Each 😊 stands for 1 child.

1. How many children chose chocolate? _____ children
2. Which flavor did the most children choose? _____________________
3. How many children in all chose a favorite flavor? _____ children

Lesson 10.3 (pp. 477–479)

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

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Maya</td>
</tr>
<tr>
<td>Gabe</td>
</tr>
<tr>
<td>Tia</td>
</tr>
<tr>
<td>Cathy</td>
</tr>
</tbody>
</table>

Key: Each ● stands for 1 book.

2. Who read more than 4 books? _____________________
Lesson 10.4 (pp. 481–484)

Use the bar graph.

Favorite Kind of Book

<table>
<thead>
<tr>
<th>Kind of Book</th>
<th>Number of Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>animals</td>
<td>4</td>
</tr>
<tr>
<td>sports</td>
<td>1</td>
</tr>
<tr>
<td>people</td>
<td>5</td>
</tr>
<tr>
<td>science</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Which kind of book did the fewest children choose? _________________

2. 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.

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

<table>
<thead>
<tr>
<th>Color</th>
<th>Bars</th>
</tr>
</thead>
<tbody>
<tr>
<td>red</td>
<td></td>
</tr>
<tr>
<td>blue</td>
<td></td>
</tr>
<tr>
<td>yellow</td>
<td></td>
</tr>
<tr>
<td>green</td>
<td></td>
</tr>
</tbody>
</table>

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