

Name \_\_\_\_\_

# Make Bar Graphs

**Essential Question** How do you make a bar graph to show data?



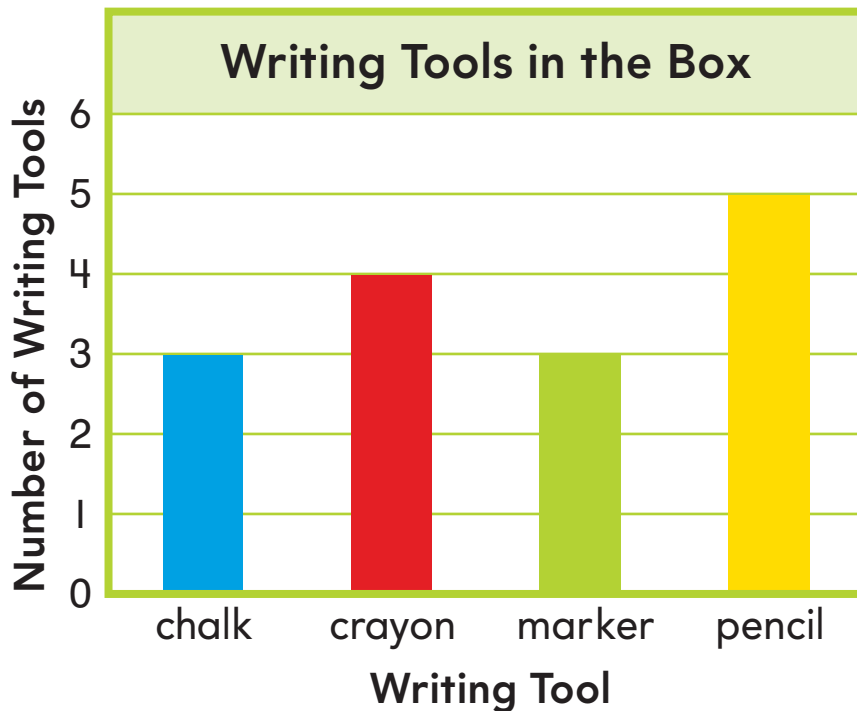
Measurement and Data—2.MD.D.10  
Also 2.MD.B.6

**MATHEMATICAL PRACTICES**  
MP3, MP4, MP6

## Listen and Draw



Use the bar graph to solve the problem.  
Draw or write to show what you did.



\_\_\_\_\_ writing tools

**Math Talk**

**MATHEMATICAL PRACTICES 3**

### Compare Representations

Describe how the information in the graph for crayon and for marker is different.

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**FOR THE TEACHER** • Read the following problem. Barry made this bar graph. How many writing tools are in the box?

## Model and Draw

Abel read 2 books, Jiang read 4 books, Cara read 1 book, and Jamila read 3 books.

Complete the bar graph to show this data.



## Share and Show



Ella is making a bar graph to show the kinds of pets her classmates have.

- 5 classmates have a dog.
- 7 classmates have a cat.
- 2 classmates have a bird.
- 3 classmates have fish.

1. Write labels and draw bars to complete the graph.

2. How will the graph change if one more child gets a bird?

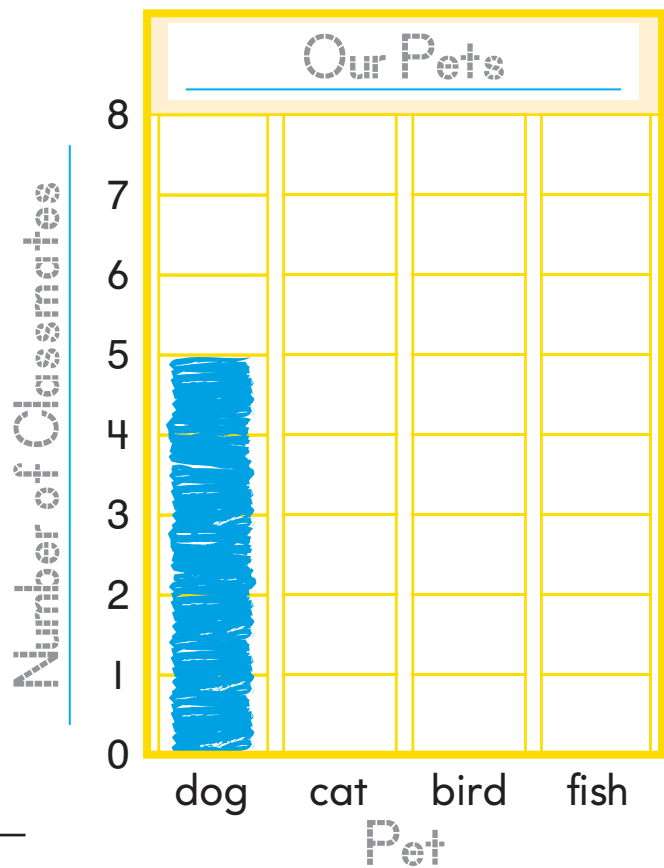
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Name \_\_\_\_\_

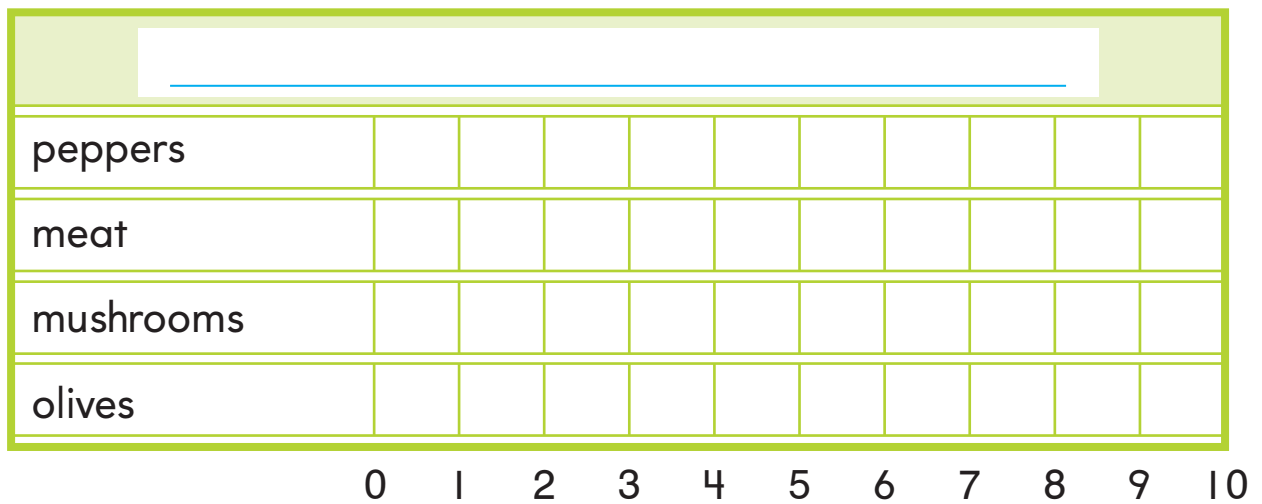
## On Your Own

Dexter asked his classmates which pizza topping is their favorite.

- 4 classmates chose peppers.
- 7 classmates chose meat.
- 5 classmates chose mushrooms.
- 2 classmates chose olives.



3. Write a title and labels for the bar graph.
4. Draw bars in the graph to show the data.



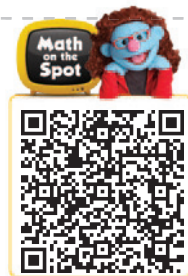
5. Which topping did the most classmates choose? \_\_\_\_\_

6. **THINK SMARTER** Did more classmates choose peppers and olives than meat? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Problem Solving • Applications



WRITE Math

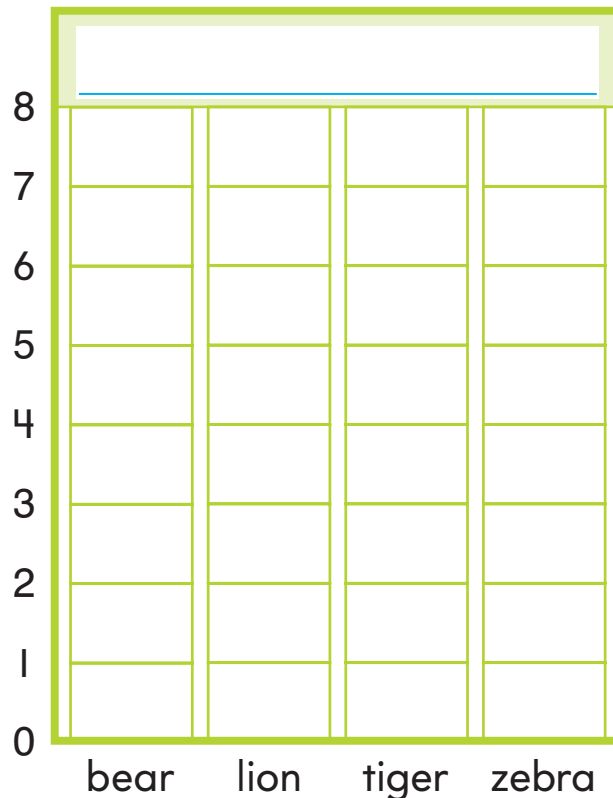
Cody asked his classmates which zoo animal is their favorite.

- 6 classmates chose bear.
- 4 classmates chose lion.
- 7 classmates chose tiger.
- 3 classmates chose zebra.

7. Use the data to complete the bar graph. Write a title and labels. Draw bars.

8. **GO DEEPER** How many fewer classmates chose lion than classmates that chose the other zoo animals?

\_\_\_\_\_ fewer classmates



Personal Math Trainer

9. **THINK SMARTER +** Look at the bar graph above.

Suppose 2 of Cody's classmates chose zebra instead of bear. Explain how the bar graph would change.

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**TAKE HOME ACTIVITY** • Ask your child to describe how to make a bar graph to show data.

Name \_\_\_\_\_

## Make Bar Graphs



COMMON CORE STANDARD—2.MD.D.10  
Represent and interpret data.

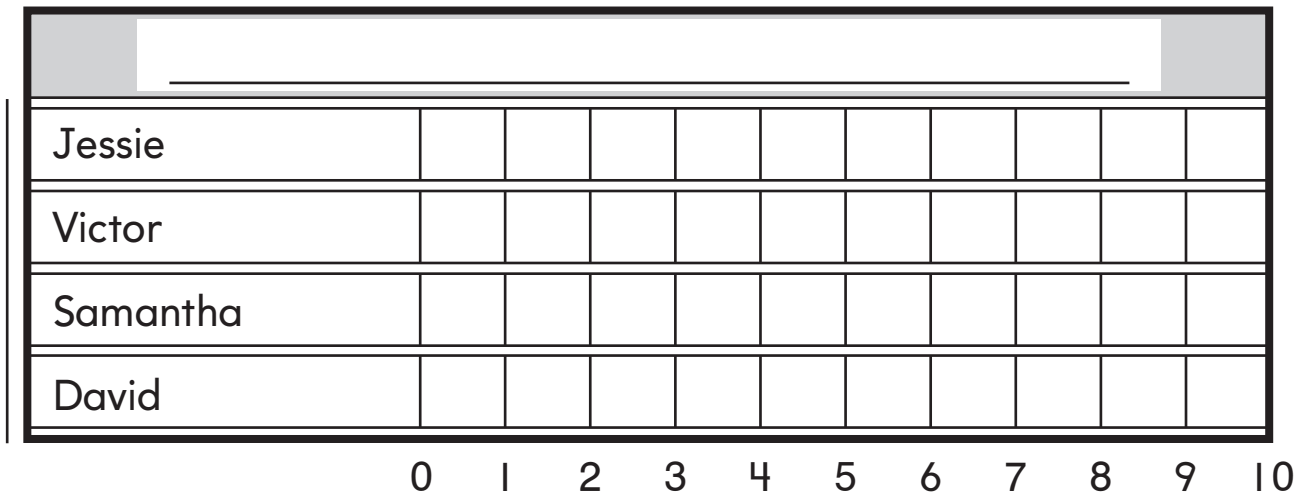
Maria asked her friends how many hours they practice soccer each week.

- 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.

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



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

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### Problem Solving

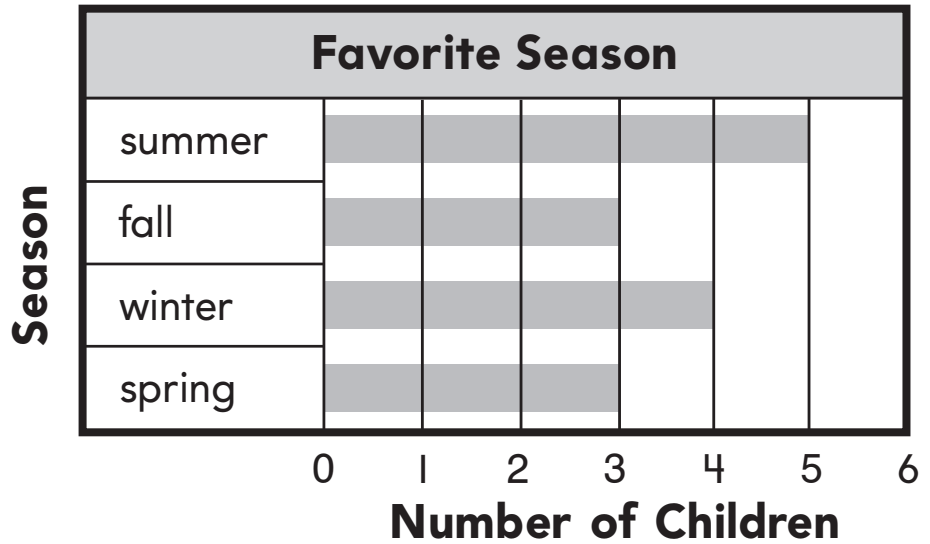
4. Which friends practice soccer for fewer than 4 hours each week? \_\_\_\_\_

5. Look at the bar graph above. Describe how you shaded bars to show the data. \_\_\_\_\_

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## Lesson Check (2.MD.D.10)

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



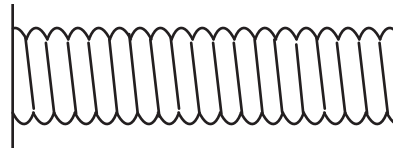
\_\_\_\_\_ children

## Spiral Review (2.MD.A.1, 2.MD.B.5, 2.MD.B.6, 2.MD.C.7, 2.MD.C.8)

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

\_\_\_\_\_ centimeters

3. Use an inch ruler. What is the length of the yarn to the nearest inch?



\_\_\_\_\_ inches

4. Gail finished studying at quarter past 1. What time did Gail finish studying?

\_\_\_\_\_ : \_\_\_\_\_

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

\$ \_\_\_\_\_