

Data Detective Day

Read displays, ask questions, and solve everyday problems.

GRADE 3 • 3.MDR.5.1

3.MDR.5.1 "Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life."

NAME _____

DATE _____

READ THE DATA

Start by reading what the display is about and what each mark means. Find the counts you need, then add to combine groups or subtract to compare groups. Check that your answer matches the question.

WORKED EXAMPLE

The art club made this bar graph.
How many more students chose robots than puzzles? Robots:
***** Puzzles:
***** Each * stands for a student.

1. Robots has 14 stars.
2. Puzzles has 13 stars.
3. Subtract: $14 - 13 = 1$.

Answer: 1 more student chose robots.

PRACTICE 6 problems

- 1** Use this recess-choice graph for Problems 1-6. Jump rope: ***** Four square: ***** Tag: ***** Drawing: ** Each * stands for a vote. Which choice had the most votes?

ANSWER _____

- 2** Use the recess-choice graph. How many votes did tag get?

ANSWER _____

- 3** Use the recess-choice graph. How many more votes did four square get than jump rope?

ANSWER _____

- 4** Use the recess-choice graph. How many votes were for jump rope and drawing altogether?

ANSWER _____

- 5** Use the recess-choice graph. Which choice had the fewest votes?

ANSWER _____

- 6** Use the recess-choice graph. How many votes were cast altogether?

ANSWER _____

APPLY IT Show your work

- 1** At the book fair, Maya asks students which bookmark they like best. Her table shows: Animals, 11; Stars, 8; Sports, 5. How many more students chose animal bookmarks than sports bookmarks?

WORK SPACE

ANSWER _____

- 2** During recess, Jordan observes the playground and makes a table: Scooters, 12; Balls, 9; Hula hoops, 3. How many children were using scooters or balls?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A library asks 20 students what they want for a class prize. New comic books: 7 New craft supplies: 8 New board games: ____ How many students chose new board games? Which prize got the fewest votes?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use this recess-choice graph for Problems 1-6. Jump rope: ***** Four square: ***** Tag: ***** Drawing: ** Each * stands for a vote. Which choice had the most votes?	Four square
2	Use the recess-choice graph. How many votes did tag get?	5 votes
3	Use the recess-choice graph. How many more votes did four square get than jump rope?	3 more votes
4	Use the recess-choice graph. How many votes were for jump rope and drawing altogether?	8 votes
5	Use the recess-choice graph. Which choice had the fewest votes?	Drawing
6	Use the recess-choice graph. How many votes were cast altogether?	22 votes

PART 2 • APPLY IT

- 6 more students** Subtract the sports count from the animal count: $11 - 5 = 6$.
- 21 children** Add the scooter and ball counts: $12 + 9 = 21$.

CHALLENGE

5 students chose new board games. New board games got the fewest votes.

Accept number answers with or without the unit if the quantity is correct. For the challenge, accept “board games” as the prize with the fewest votes.