

Data Detectives

Read displays, compare amounts, and solve real problems.

GRADE 4 • 4.MDR.6.2

4.MDR.6.2 "Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life."

NAME _____

DATE _____

READ, COMPARE, SOLVE

A data display organizes information so you can compare amounts. Read the labels and numbers carefully. Add to find a total, or subtract to find how many more or fewer.

WORKED EXAMPLE

A snack chart shows that 12 students chose apples and 8 students chose bananas. How many more students chose apples?

1. Find the two amounts: 12 and 8.
2. Subtract to compare: $12 - 8 = 4$.
3. The difference tells how many more chose apples.

Answer: 4 students

PRACTICE 6 problems

- 1** Use the table. Recess Choice | Students
Jump rope | 6 Kickball | 10 Tag | 16 Drawing
| 18 Which recess choice was picked by the most students?

ANSWER _____

- 2** Use the table. Recess Choice | Students
Jump rope | 6 Kickball | 10 Tag | 16 Drawing
| 18 Which recess choice was picked by the fewest students?

ANSWER _____

- 3** Use the table. Recess Choice | Students
Jump rope | 6 Kickball | 10 Tag | 16 Drawing
| 18 How many more students picked tag than jump rope?

ANSWER _____

- 4** Use the table. Recess Choice | Students
Jump rope | 6 Kickball | 10 Tag | 16 Drawing
| 18 How many students picked kickball or drawing?

ANSWER _____

- 5** Use the table. Recess Choice | Students
Jump rope | 6 Kickball | 10 Tag | 16 Drawing
| 18 How many students answered the survey altogether?

ANSWER _____

- 6** Use the table. Recess Choice | Students
Jump rope | 6 Kickball | 10 Tag | 16 Drawing
| 18 Which two choices were picked by 26 students altogether?

ANSWER _____

APPLY IT Show your work

- 1** The school library recorded these book checkouts. Book Type | Checkouts Graphic novels | 26
Animal books | 16 Sports books | 20 How many more graphic novels than animal books were checked out?

WORK SPACE

ANSWER _____

- 2** Students voted for an indoor recess activity. Each star stands for 2 students. Puzzles: ★★★ Cards: ★★★★★★ Building sets: ★★★★★★★★ How many students voted for puzzles and cards altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Two clubs collected cans for a food drive. Club | Monday | Tuesday Robotics Club | 18 | 20 Art Club | 16 | 28 Which club collected more cans over both days? How many more cans did that club collect? Show addition and subtraction.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use the table. Recess Choice Students Jump rope 6 Kickball 10 Tag 16 Drawing 18 Which recess choice was picked by the most students?	Drawing
2	Use the table. Recess Choice Students Jump rope 6 Kickball 10 Tag 16 Drawing 18 Which recess choice was picked by the fewest students?	Jump rope
3	Use the table. Recess Choice Students Jump rope 6 Kickball 10 Tag 16 Drawing 18 How many more students picked tag than jump rope?	10 students
4	Use the table. Recess Choice Students Jump rope 6 Kickball 10 Tag 16 Drawing 18 How many students picked kickball or drawing?	28 students
5	Use the table. Recess Choice Students Jump rope 6 Kickball 10 Tag 16 Drawing 18 How many students answered the survey altogether?	50 students
6	Use the table. Recess Choice Students Jump rope 6 Kickball 10 Tag 16 Drawing 18 Which two choices were picked by 26 students altogether?	Kickball and tag

PART 2 • APPLY IT

1. **10 books** Subtract the animal book checkouts from the graphic novel checkouts: $26 - 16 = 10$.
2. **16 students** Puzzles received 6 votes and cards received 10 votes. Add $6 + 10 = 16$.

CHALLENGE

Art Club collected 6 more cans. Robotics Club collected 38 cans, and Art Club collected 44 cans.

Accept answers with correct labels, such as students, books, or cans. For the challenge, accept any clear work that shows both two-day totals and the difference.