

Data Detective

Read displays, compare values, and solve real problems.

GRADE 5 • 5.MDR.7.2

5.MDR.7.2 "Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life"

NAME _____

DATE _____

READ, THEN CHOOSE

A graph or table organizes information so you can answer a question. Read the labels and values, then decide whether to compare, add, or subtract. Check that your answer matches the question.

WORKED EXAMPLE

A class travel display shows 17 walkers and 9 bus riders. How many more students walked?

1. Find the values: 17 and 9.
2. Subtract: $17 - 9 = 8$.
3. Walkers have the greater value.

Answer: 8 more students walked.

PRACTICE 5 problems

- 1** Snack votes: Pretzels 16, Popcorn 6. How many more votes did pretzels get?

ANSWER _____

- 2** Reading minutes: Monday 12, Tuesday 15, Wednesday 18. Which day had the most minutes?

ANSWER _____

- 3** Bottle collection: Blue team 21, Green team 16. How many bottles did the teams collect altogether?

ANSWER _____

- 4** Pet survey: Dogs 25, Cats 10, Fish 5. How many fewer students chose fish than dogs?

ANSWER _____

- 5** Game points: Ana 20, Bo 26, Cy 15. Who earned 6 more points than Ana?

ANSWER _____

APPLY IT Show your work

- 1** A library donation display shows Week 1: 23 books, Week 2: 19 books, Week 3: 28 books. The goal is 70 books. Did the class meet the goal?

WORK SPACE

ANSWER _____

- 2** A game club survey shows Puzzle 24, Racing 18, and Sports 21. Students will form groups of 6. How many full groups can they make, and how many students are left over?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A bike-rack count shows Monday 27, Tuesday 31, and Wednesday 29 riders. The school wants 90 riders over the three days. Did the count reach the goal? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Snack votes: Pretzels 16, Popcorn 6. How many more votes did pretzels get?	10 more votes
2	Reading minutes: Monday 12, Tuesday 15, Wednesday 18. Which day had the most minutes?	Wednesday
3	Bottle collection: Blue team 21, Green team 16. How many bottles did the teams collect altogether?	37 bottles
4	Pet survey: Dogs 25, Cats 10, Fish 5. How many fewer students chose fish than dogs?	20 fewer students
5	Game points: Ana 20, Bo 26, Cy 15. Who earned 6 more points than Ana?	Bo

PART 2 • APPLY IT

1. **Yes, the class met the goal exactly.** Add $23 + 19 + 28 = 70$. The total equals the goal.
2. **10 full groups, with 3 students left over.** Add $24 + 18 + 21 = 63$. Divide 63 by 6 to get 10 groups with 3 left over.

CHALLENGE

No. $27 + 31 + 29 = 87$, so the count is 3 riders short of 90.

Accept correct answers with equivalent wording and appropriate units. For the grouping problem, accept "10 R3" if the student clearly identifies 10 full groups and 3 students left over.