

Graph Detective

Read, draw, and compare simple graphs.

GRADE 2 • 2.MD.D.10

CCSS.Math.Content.2.MD.D.10 "Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems 1 using information presented in a bar graph."

NAME _____

DATE _____

COUNT THE BARS

Each block or picture can stand for 1. Count the blocks to find a total. To find how many more, subtract the smaller count from the larger count.

WORKED EXAMPLE

Each block = 1 game vote.

Puzzles: ■■■■■■ Blocks: ■■■

How many more votes did
Puzzles get?

1. Puzzles has 6 votes.
2. Blocks has 3 votes.
3. $6 - 3 = 3$.

Answer: Puzzles got 3 more votes.

PRACTICE 4 problems

- 1** Each block = 1 pet vote. Cats: ■■■■
Dogs: ■■ Which pet has fewer
votes?

ANSWER _____

- 2** Draw a picture graph. Each circle = 1
snack. Apples: 4 Pears: 1

ANSWER _____

- 3** Each block = 1 toy. Bears: ■■■■
Ducks: ■■■■ How many toys are
there altogether?

ANSWER _____

- 4** Draw a bar graph. Each block = 1
book. Animal books: 2 Space books:
4 Joke books: 1

ANSWER _____

APPLY IT Show your work

- 1** At recess, this bar graph shows games chosen. Each block = 1 child. Tag: ■■■■
Hopscotch: ■■■■ How many children chose Tag or Hopscotch?

WORK SPACE

ANSWER _____

- 2** The pet club made this bar graph. Each block = 1 pet. Hamsters: ■■■■■■ Fish: ■■
How many more hamsters than fish are there?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Each block = 1 vote for a class pet. Turtles: ■■■■■■ Rabbits: ■■■■ Birds: ■ How many more turtle votes are there than rabbit and bird votes together? Explain with numbers.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Each block = 1 pet vote. Cats: ■■■■ Dogs: ■■ Which pet has fewer votes?	Dogs
2	Draw a picture graph. Each circle = 1 snack. Apples: 4 Pears: 1	Apples: ●●●●; Pears: ●
3	Each block = 1 toy. Bears: ■■■■ Ducks: ■■■■ How many toys are there altogether?	8 toys
4	Draw a bar graph. Each block = 1 book. Animal books: 2 Space books: 4 Joke books: 1	Animal books: ■■; Space books: ■■■■; Joke books: ■

PART 2 • APPLY IT

- 8 children** Add the two bars: $4 + 4 = 8$.
- 5 more hamsters** Subtract the fish count from the hamster count: $7 - 2 = 5$.

CHALLENGE

2 more votes, because $4 + 1 = 5$ and $7 - 5 = 2$.

Accept bars or circles that match each category and use one mark for each item. For the challenge, accept an explanation that shows $4 + 1 = 5$ and $7 - 5 = 2$.