

Chart Detectives

Read picture and bar graphs.

GRADE 2 • 2.PS.1.e.i

2.PS.1.e.i "Analyze data represented in pictographs and bar graphs and communicate results: ask and answer questions about the data represented in pictographs and bar graphs (e.g., total number of data points represented, how many in each category...)"

NAME _____

DATE _____

READ THE KEY

A key tells what each picture or bar is worth. Count to find a total. Subtract to find how many more or fewer.

WORKED EXAMPLE

Key: ★ = 5 puzzles
Puzzle chart: ★★★ How many puzzles?

1. Count 3 stars.
2. Each star means 5 puzzles.
3. $5 + 5 + 5 = 15$.

Answer: 15 puzzles

PRACTICE 4 problems

- 1** Key: ● = 2 toy pets
Dogs: ●●●● Cats: ●●
How many more toy dogs than toy cats?

ANSWER _____

- 2** Key: ▲ = 1 snack
Grapes: ▲▲▲▲▲▲▲ Crackers: ▲▲▲▲
How many snacks are shown?

ANSWER _____

- 3** Each | = 2 votes
Robots: |||| Dolls: ||
How many votes did robots get?

ANSWER _____

- 4** Each | = 10 stickers
Space: || Animals: |
How many stickers are shown?

ANSWER _____

APPLY IT Show your work

- 1** A club chart has this key: ★ = 10 children. Jump rope has ★★. Hula hoops has ★★★★★. How many children chose an activity?

WORK SPACE

ANSWER _____

- 2** At the book fair, each | = 1 book. Mia has |||||. Leo has |||||. How many fewer books does Leo have?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Each | = 2 votes Trains: |||| Kites: || Drums: ||||| How many more votes did drums get than kites? Explain with subtraction.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Key: ● = 2 toy pets Dogs: ●●●● Cats: ●● How many more toy dogs than toy cats?	4 more toy dogs
2	Key: ▲ = 1 snack Grapes: ▲▲▲▲▲▲▲ Crackers: ▲▲▲▲ How many snacks are shown?	11 snacks
3	Each = 2 votes Robots: Dolls: How many votes did robots get?	8 votes
4	Each = 10 stickers Space: Animals: How many stickers are shown?	30 stickers

PART 2 • APPLY IT

- 60 children** There are 6 stars. Each star is 10 children, so 6 groups of 10 is 60.
- 2 fewer books** Mia has 8 books and Leo has 6 books. $8 - 6 = 2$.

CHALLENGE

8 more votes. Drums have 12 votes and kites have 4 votes. $12 - 4 = 8$.

Accept correct answers with or without units. For the challenge, accept words, a number sentence, or a drawing that shows $12 - 4 = 8$.