LESSON MAKER PRO

Graph Detectives

Read graphs to find out what the data shows.

GRADE 2 · 2.D.1

2.D.1 "Collect, organize, and interpret data. Explain that the length of a bar in a bar graph and the number of objects in a pictograph represents the number of data points for a given category..."

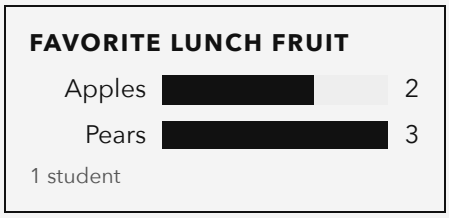
NAME _____ DATE _____

READ EACH MARK

On these graphs, each step of a bar or each picture stands for one choice. Read the key, then count or compare the choices to answer a question.

WORKED EXAMPLE

How many students chose apples or pears?



1. Read the bars: 2 chose apples and 3 chose pears.
2. Add: 2 + 3 = 5.

Answer: 5 students

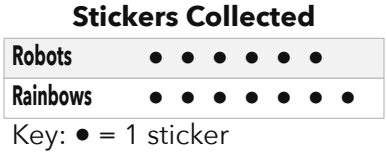
PRACTICE 5 problems

1 How many more kids chose jump rope than tag?



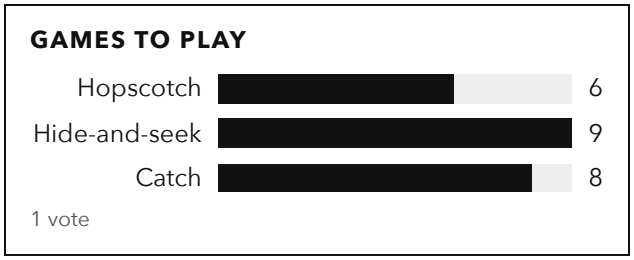
ANSWER _____

2 How many robot and rainbow stickers are there in all?



ANSWER _____

3 Which game got the fewest votes?



ANSWER _____

4 How many more kids chose dogs than cats?

Favorite Pets

Dogs	♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥
Cats	♥ ♥ ♥ ♥ ♥ ♥

Key: ♥ = 1 kid

ANSWER _____

5 The class will pick one kind of book for a new shelf. Which kind do you predict they will pick? Use the graph to decide.

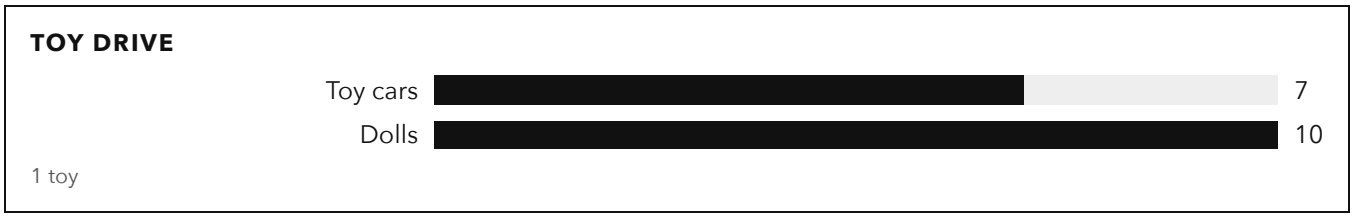


ANSWER _____

_____

APPLY IT Show your work

1 At a toy drive, kids brought toy cars and dolls. Use the graph. How many toys did they bring in all?



ANSWER _____

2 Kids voted on seeds for their class garden. Use the pictograph. How many more kids chose sunflowers than beans?

Garden Seeds

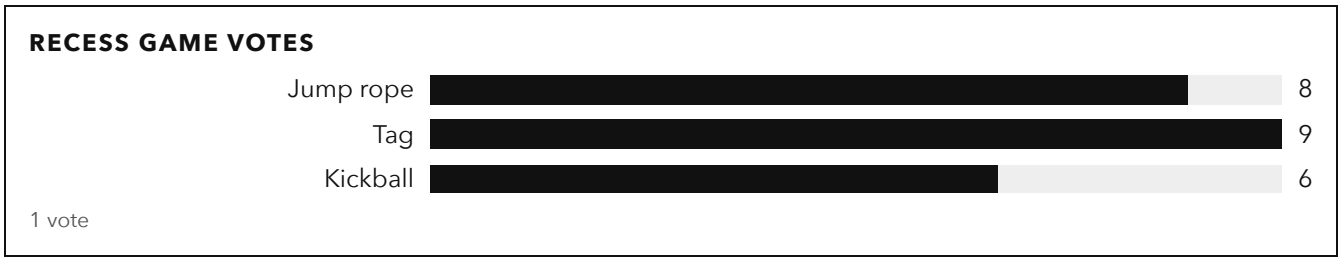
Sunflowers	★★★★★★★★
Beans	★★★★★★

Key: ★ = 1 kid

ANSWER _____

CHALLENGE One step up

One more kid votes for jump rope. Which two games are tied for the most votes now? Explain how you know.



WORK SPACE AND ANSWER

ANSWER KEY

Graph Detectives

GRADE 2 · 2.D.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many more kids chose jump rope than tag?	**3 kids**
2	How many robot and rainbow stickers are there in all?	**13 stickers**
3	Which game got the fewest votes?	**Hopscotch**
4	How many more kids chose dogs than cats?	**4 kids**
5	The class will pick one kind of book for a new shelf. Which kind do you predict they will pick? Use the graph to decide.	**Space books, because more kids chose them than either other kind.**

PART 2 · APPLY IT

1. **17 toys** Add the two bar lengths: 7 + 10 = 17.
2. **2 kids** Subtract the votes: 8 - 6 = 2.

CHALLENGE

Jump rope and tag are tied. Jump rope has 9 votes after one more kid votes for it, the same as tag.

For the prediction, accept space books with a reason based on the graph. For the challenge, accept any explanation that shows jump rope and tag each have 9 votes.