LESSON MAKER PRO

Graph Story Detectives

Read the scale, compare the amounts, and tell the story.

GRADE 3 · 3.DS.A.1.b

3.DS.A.1.b "Summarize data presented in scaled data visualizations (e.g., picture graph, bar graph for categorial data; line plot for numerical data) by describing the story the data is telling."

NAME _____ DATE _____

READ, COMPARE, TELL

A graph's key or tick marks tell you what each picture or step stands for. Use the scale to find the amounts, then compare them. Write a sentence that tells what the data shows.

WORKED EXAMPLE

Which reading choice got the most votes? How many more votes did it get than the least popular choice?

Reading Choices

Mystery	★
Animals	★ ★
Space	★ ★ ★

Key: ★ ★ = 7 votes

1. Space has 3 stars: 3 × 7 = 21 votes.
2. Mystery has 1 star: 1 × 7 = 7 votes.
3. Find the difference: 21 - 7 = 14 votes.

Answer: Space got the most votes, with 14 more votes than mystery.

PRACTICE 6 problems

1 How many more votes did soccer get than tag? Write a sentence comparing them.

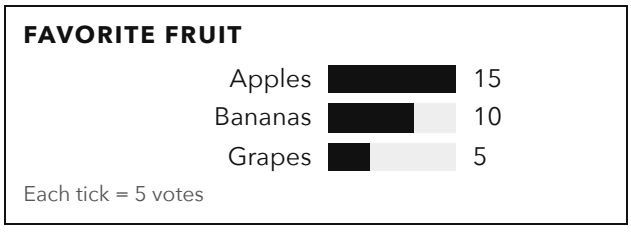
Recess Game Votes

Soccer	● ● ● ●
Tag	● ●
Hopscotch	● ● ●

Key: ● ● = 2 votes

ANSWER _____

2 Which fruit got the most votes? How many more votes did it get than the fruit with the fewest votes?



ANSWER _____

3 Write a sentence comparing the number of bus riders with the number of walkers.

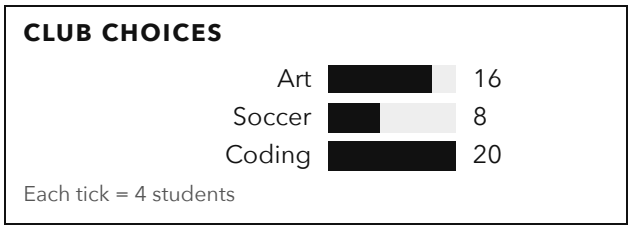
Trips to School

Bike	■ ■ ■
Walk	■ ■
Bus	■ ■ ■ ■

Key: ■ ■ = 3 students

ANSWER _____

4 How many more students chose art and coding together than soccer? Write a sentence about the results.



ANSWER _____

5 How did the number of cans collected change from day to day? Use the amounts in your answer.

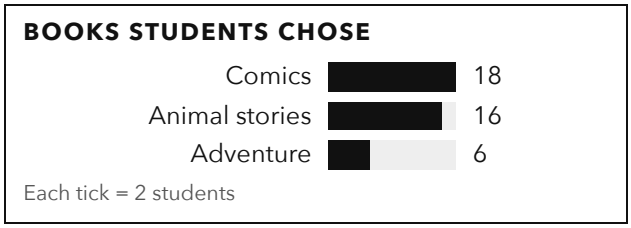
Cans Collected

Monday	▲ ▲
Tuesday	▲ ▲ ▲
Wednesday	▲ ▲ ▲ ▲

Key: ▲ ▲ = 5 cans

ANSWER _____

6 Compare the most chosen and least chosen kinds of books. Include how many more students chose one than the other.



ANSWER _____

APPLY IT Show your work

1 At the school fair, kids tried different games. Did more kids play Ring Toss and Beanbag Toss together than Mini Golf? Tell how many more in one sentence.



ANSWER _____

2 A class counted birds near the playground. Were there more sparrows or more robins and blue jays together? Tell how many more in one sentence.

Birds Near the Playground

Sparrows	◆ ◆ ◆ ◆ ◆
Robins	◆ ◆
Blue jays	◆ ◆

Key: ◆ ◆ = 4 birds

ANSWER _____

CHALLENGE One step up

Each dot shows one student's walk to school. A student says, "More than half the class took 15 minutes or longer to walk." Is the student right? Use counts from the plot to explain.



WORK SPACE AND ANSWER

ANSWER KEY

Graph Story Detectives

GRADE 3 · 3.DS.A.1.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many more votes did soccer get than tag? Write a sentence comparing them.	**Soccer got 4 more votes than tag.**
2	Which fruit got the most votes? How many more votes did it get than the fruit with the fewest votes?	**Apples got the most votes, 10 more than grapes.**
3	Write a sentence comparing the number of bus riders with the number of walkers.	**12 students rode the bus, which was 6 more than the 6 students who walked.**
4	How many more students chose art and coding together than soccer? Write a sentence about the results.	**Art and coding together had 28 more students than soccer.**
5	How did the number of cans collected change from day to day? Use the amounts in your answer.	**The class collected 10 cans on Monday, 15 on Tuesday, and 20 on Wednesday. The amount grew by 5 cans each day.**
6	Compare the most chosen and least chosen kinds of books. Include how many more students chose one than the other.	**Comics were chosen most and adventure books least. Comics were chosen by 12 more students.**

PART 2 · APPLY IT

1. **Yes, 5 more kids played Ring Toss and Beanbag Toss together than Mini Golf.** Ring Toss and Beanbag Toss had 20 + 15 = 35 kids together. That is 5 more than the 30 kids who played Mini Golf.
2. **There were 4 more sparrows than robins and blue jays together.** The class counted 20 sparrows and 8 + 8 = 16 robins and blue jays together. The difference is 4 birds.

CHALLENGE

Yes. 8 of the 13 students took 15 minutes or longer, and 8 is more than half of 13.

Accept other clear sentences that use the correct amounts and comparisons. For the challenge, students may explain that half of 13 is 6 and a half, so 8 is more than half.