

Chart Clues

Use graph data to make smart predictions.

GRADE 3 • 3.PS.1.e.iv

3.PS.1.e.iv "Analyze data represented in pictographs and bar graphs, and communicate results orally and in writing: use characteristics of the data to draw conclusions about the data and make predictions based on the data (e.g...."

NAME _____

DATE _____

READ THE DATA

Find the greatest and least amounts in a graph. A choice with more data is more likely, and a choice with less data is less likely.

WORKED EXAMPLE

Snack chart: Pretzels 6, Cheese 9, Grapes 3. Which snack was chosen most? Which is least likely to be chosen next?

1. Compare 9, 6, and 3.
2. 9 is the greatest amount.
3. 3 is the least amount.

Answer: Cheese was chosen most. Grapes are least likely to be chosen next.

PRACTICE 5 problems

- 1** Pictograph key: ★ = 2 votes. Art: ★★★★★ Music: ★★ Drama: ★★★★★. How many votes did Art get?

ANSWER _____

- 2** Bar graph data: Red 7, Blue 5, Green 4. Which color has the most votes?

ANSWER _____

- 3** Bar graph data: Apples 10, Bananas 2, Pears 8. Which fruit is least likely to be chosen next?

ANSWER _____

- 4** Pictograph key: ● = 5 students. Soccer: ●●● Swim: ● Dance: ●●. How many more students chose soccer than dance?

ANSWER _____

- 5** Bar graph data: Dogs 11, Cats 11, Fish 1. Write one conclusion about the data.

ANSWER _____

APPLY IT Show your work

- 1** A recess graph shows Playground 14, Reading 11, and Drawing 5. Which activity is most likely to be chosen by another student? Explain why.

WORK SPACE

ANSWER _____

- 2** A club pictograph has a key of ★ = 4 votes. Gardening has ★★★★★, Chess has ★★, and Cooking has ★. How many more votes did Gardening get than Chess? Which club is most likely to get another vote?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game graph shows Tag 12, Four Square 12, and Jump Rope 4. Can you predict one single game that is most likely to be chosen next? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Pictograph key: ★ = 2 votes. Art: ★★★★★ Music: ★★ Drama: ★★★. How many votes did Art get?	8 votes
2	Bar graph data: Red 7, Blue 5, Green 4. Which color has the most votes?	Red
3	Bar graph data: Apples 10, Bananas 2, Pears 8. Which fruit is least likely to be chosen next?	Bananas
4	Pictograph key: ● = 5 students. Soccer: ●●● Swim: ● Dance: ●●. How many more students chose soccer than dance?	5 students
5	Bar graph data: Dogs 11, Cats 11, Fish 1. Write one conclusion about the data.	Dogs and cats are tied for most. Fish has the fewest.

PART 2 • APPLY IT

- 1. Playground, because it has the greatest number of students.** Compare the three amounts. Playground has 14 students, the greatest amount.
- 2. Gardening got 8 more votes than Chess. Gardening is most likely to get another vote.** Gardening has 16 votes and Chess has 8 votes, so the difference is 8. Gardening has the most votes.

CHALLENGE

No. Tag and Four Square are tied with 12 students, so either one could be chosen next.

Accept clear equivalent wording for conclusions and predictions. For the challenge, students must state that the two highest categories are tied.