

Graph Detectives

Find the greatest, least, and same amounts.

GRADE 3 • 3.PS.1.e.ii

3.PS.1.e.ii "Analyze data represented in pictographs and bar graphs, and communicate results orally and in writing: identify parts of the data that have special characteristics, including categories with the greatest, the least, or the same (e.g...."

NAME _____

DATE _____

READ THE DATA

Use the key in a pictograph or the numbers on a bar graph to find each amount. Compare the amounts to find the greatest, the least, or categories that are the same.

WORKED EXAMPLE

Pictograph key: ● = 2 points. A: ●●●
B: ● C: ●●. Which category has the greatest amount?

1. A has 3 symbols.
2. 3 groups of 2 points = 6 points.
3. B has 2 points and C has 4 points.
4. 6 is the greatest amount.

Answer: A has the greatest amount, 6 points.

PRACTICE 5 problems

- 1** Bar graph data, pages read: Ana 8, Bo 5, Cy 1. Which student read the greatest number of pages?

ANSWER _____

- 2** Pictograph key: ★ = 5 votes. Jay: ★ Kim: ★★★★★ Lee: ★. Which categories have the same number of votes?

ANSWER _____

- 3** Bar graph data, pets: Dogs 9, Cats 4, Fish 7. Which category has the least?

ANSWER _____

- 4** Pictograph key: ▲ = 8 books. Mia: ▲ Noa: ▲▲▲▲▲ Oli: ▲▲▲▲. Which student has the greatest number of books?

ANSWER _____

- 5** Bar graph data, game scores: Tari 10, Uma 8, Wes 7. Write a sentence telling who has the least score.

ANSWER _____

APPLY IT Show your work

- 1** At the library, a bar graph shows books checked out: Comics 9, Animal Books 5, Mysteries 9. Which kinds of books are tied for greatest?

WORK SPACE

ANSWER _____

- 2** In a game club, the pictograph key says ● = 7 tokens. Ria: ●●●● Sam: ● Val: ●●●●●. Who earned the least number of tokens?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A bar graph shows favorite activities: Biking 9, Drawing 5, Soccer 9, Dancing 1. Name the categories tied for greatest, name the least category, and tell how many more votes the greatest amount has than the least amount.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Bar graph data, pages read: Ana 8, Bo 5, Cy 1. Which student read the greatest number of pages?	Ana, 8 pages.
2	Pictograph key: ★ = 5 votes. Jay: ★ Kim: ★★★★★ Lee: ★. Which categories have the same number of votes?	Jay and Lee, 5 votes each.
3	Bar graph data, pets: Dogs 9, Cats 4, Fish 7. Which category has the least?	Cats, 4.
4	Pictograph key: ▲ = 8 books. Mia: ▲ Noa: ▲▲▲▲▲ Oli: ▲▲▲▲. Which student has the greatest number of books?	Noa, 40 books.
5	Bar graph data, game scores: Tari 10, Uma 8, Wes 7. Write a sentence telling who has the least score.	Wes has the least score, with 7.

PART 2 • APPLY IT

1. **Comics and Mysteries, 9 books each.** Compare the bar values. Comics and Mysteries both have 9, the greatest value.
2. **Sam, 7 tokens.** Sam has 1 symbol. One group of 7 is 7 tokens.

CHALLENGE

Biking and Soccer are tied for greatest. Dancing is least. The greatest amount has 8 more votes than the least amount.

Accept category names with the correct amount. For the sentence response, accept any complete sentence that correctly identifies Wes and 7.