LESSON MAKER PRO

Ask for Data

Write questions that help you collect useful facts.

GRADE 3 · 3.PS.1.a

3.PS.1.a "Formulate questions that require the collection or acquisition of data."

NAME _____ DATE _____

DATA QUESTIONS

Data are facts you collect from people or things. A useful data question tells who you will ask or observe and what information you need to find out.

WORKED EXAMPLE

The library wants to choose one new board game for its after-school group. Write a question that would collect data to help the library choose.

1. Name the group: students in the after-school library group.
2. Name the data: each student's board-game choice.
3. Ask a question that collects those choices.

Answer: Which board game would each student in the after-school library group like us to buy?

PRACTICE 6 problems

1 Your class needs to choose a fruit for a field trip snack. Write a question to ask every student about the fruit they prefer.

ANSWER _____

2 Which question needs data from many students? A. What color is my backpack? B. How many students in our class bring lunch from home?

ANSWER _____

3 You want to make recess better. Write a question to find out which playground activity your classmates like best.

ANSWER _____

4 The principal wants to learn how students get to school. Write a question that collects this data from third graders.

ANSWER _____

5 Make this into a useful data question for your class: "Do you like books?"

ANSWER _____

6 Which question would help a teacher collect data about classroom jobs? A. What job do I have today? B. Which classroom job would each student like to do?

ANSWER _____

APPLY IT Show your work

1 The student council wants to add a new game for outdoor break. Write one question it can ask third-grade students. Your question must ask students to choose a game.

WORK SPACE

ANSWER _____

2 Noah's class is collecting supplies for an animal shelter. They need to know how many cans of pet food families can donate. Write one question the class can ask families.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Your school is deciding whether to start an art club on Tuesday or Thursday. Write two data questions. One question must ask which day students prefer. The other must ask how many students would attend. Then explain why the school needs both questions.

WORK SPACE AND ANSWER

ANSWER KEY

Ask for Data

GRADE 3 · 3.PS.1.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Your class needs to choose a fruit for a field trip snack. Write a question to ask every student about the fruit they prefer.	**Which fruit would each student in our class like for the field trip snack?**
2	Which question needs data from many students? A. What color is my backpack? B. How many students in our class bring lunch from home?	**B. How many students in our class bring lunch from home?**
3	You want to make recess better. Write a question to find out which playground activity your classmates like best.	**Which playground activity do students in our class like best at recess?**
4	The principal wants to learn how students get to school. Write a question that collects this data from third graders.	**How do third-grade students get to school?**
5	Make this into a useful data question for your class: "Do you like books?"	**Which kinds of books do students in our class like best?**
6	Which question would help a teacher collect data about classroom jobs? A. What job do I have today? B. Which classroom job would each student like to do?	**B. Which classroom job would each student like to do?**

PART 2 · APPLY IT

1. **Which game would third-grade students like to have for outdoor break?** The question names the group, third-grade students, and collects one choice from each student.
2. **How many cans of pet food can each family donate to the animal shelter?** The question asks each family for a number, so the class can collect and total the data.

CHALLENGE

Which day do students prefer for an art club, Tuesday or Thursday? How many students would attend an art club? The school needs the first question to choose a day and the second question to know how many students may come.

Answers shown are sample responses. Accept any clear question that names an appropriate group and asks for the needed information, even if students use different wording.