LESSON MAKER PRO

Questions Need Data

Write questions that can be answered by collecting information.

GRADE 5 · 5.PS.1.a

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

NAME _____ DATE _____

ASK A DATA QUESTION

A data question can have different answers from different people or observations. Name the group you will ask and the information you will collect. Do not ask a question that has only one fixed answer.

WORKED EXAMPLE

A reading club has 12 members. Write a data question to learn how many books each member read during March.

1. Name the group: the 12 reading club members.
2. Name the data to collect: number of books read during March.
3. Write a question that may have different answers.

Answer: How many books did each of the 12 reading club members read during March?

PRACTICE 6 problems

1 Write a data question to find out which fruit students in your class like best.

ANSWER _____

2 Write a data question to find out how many pets each student in your class has.

ANSWER _____

3 Write a data question to find out how many minutes students practice a sport each week.

ANSWER _____

4 Write a data question to find out students' shoe sizes.

ANSWER _____

5 Write a data question to find out how students get to school.

ANSWER _____

6 The question "Is recess fun?" is too vague. Rewrite it as a data question that collects a rating from each student on a scale of 1 to 5.

ANSWER _____

APPLY IT Show your work

1 The student council is planning a talent show. They need to know which kind of act students would most like to watch. Write one data question they can ask students.

WORK SPACE

ANSWER _____

2 A game club wants to choose a meeting time after school. Members can meet on Monday, Tuesday, Wednesday, or Thursday. Write one data question the club can use to collect the information it needs.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mia wrote these three questions for a class survey: "What is 7 + 8?" "How many siblings does each student in our class have?" "What day comes after Friday?" Which question requires collecting data? Explain why the other two do not, then write a different data question about family activities.

WORK SPACE AND ANSWER

ANSWER KEY

Questions Need Data

GRADE 5 · 5.PS.1.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write a data question to find out which fruit students in your class like best.	**Which fruit does each student in our class like best?**
2	Write a data question to find out how many pets each student in your class has.	**How many pets does each student in our class have?**
3	Write a data question to find out how many minutes students practice a sport each week.	**How many minutes does each student in our class practice a sport each week?**
4	Write a data question to find out students' shoe sizes.	**What shoe size does each student in our class wear?**
5	Write a data question to find out how students get to school.	**How does each student in our class get to school?**
6	The question "Is recess fun?" is too vague. Rewrite it as a data question that collects a rating from each student on a scale of 1 to 5.	**How would each student in our class rate recess on a scale of 1 to 5?**

PART 2 · APPLY IT

1. **Which kind of talent show act would each student at our school most like to watch?** The question names the group, students at the school, and collects one preferred type of act from each student.
2. **Which day, Monday, Tuesday, Wednesday, or Thursday, can each game club member meet after school?** The question lists the possible days and collects an available day from every club member.

CHALLENGE

The question "How many siblings does each student in our class have?" requires collecting data because students may have different numbers of siblings. "What is 7 + 8?" and "What day comes after Friday?" each have one fixed answer, so they do not require data. Sample new question: How many days each week does each student in our class eat dinner with their family?

Accept any clearly worded question that identifies a group and a variable answer that must be collected. Equivalent wording, different reasonable groups, and different appropriate family-activity questions are acceptable.