Ask and Sort

What kind of answer will you collect?

2.DS.A.1.a "Craft a question that can be answered by collecting categorical and numerical data."

NAME _____ DATE _____

KIND

A KIND question collects words that name a type or choice.

Which pet does each student have?

NUMBER

A NUMBER question collects numbers that tell how many or how long.

How many buttons are on each student's coat?

1 SORT

8 items

For Part 1, read each question and circle KIND or NUMBER; for Part 2, pick two items and explain how you knew where each belongs.

1. Which fruit does each student like best? KIND NUMBER

2. How many brothers or sisters does each student have? KIND NUMBER

3. How many minutes does each student read after school? KIND NUMBER

4. Which game does each student like to play at recess? KIND NUMBER

5. What color is each student's backpack? KIND NUMBER

6. How many pencils are in each student's desk? KIND NUMBER

7. Which season does each student like best? KIND NUMBER

8. Which lunch food does each student pick? KIND NUMBER

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Write one new KIND question and one new NUMBER question you could ask students.

KIND _____

NUMBER _____

CHALLENGE

Write two questions about shoes: one that collects KIND data and one that collects NUMBER data.

ANSWER KEY # Ask and Sort

GRADE 2 · 2.DS.A.1.a

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Which fruit does each student like best?	**KIND**	The answers name fruits.
2	How many brothers or sisters does each student have?	**NUMBER**	The answers count siblings.
3	How many minutes does each student read after school?	**NUMBER**	The answers give amounts of time in minutes.
4	Which game does each student like to play at recess?	**KIND**	The answers name games.
5	What color is each student's backpack?	**KIND**	The answers name colors.
6	How many pencils are in each student's desk?	**NUMBER**	The answers count pencils.
7	Which season does each student like best?	**KIND**	The answers name seasons.
8	Which lunch food does each student pick?	**KIND**	The answers name foods.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **KIND**: Which animal does each student like best?
- **NUMBER**: How many windows are in each student's home?

Challenge: What kind of shoes does each student wear? How many laces are on each student's shoes?

For Part 2, accept explanations that tell whether an item collects a name or a number. For example, item 4 collects the name of a game, while item 6 collects a count of pencils.