Pick the Graph

Sort class answers by the graph that fits.

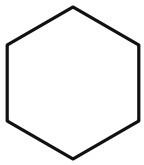
2.DS.A.1.c "Represent categorical data using picture graphs and bar graphs. Represent numerical data using line plots."

NAME _____ DATE _____

PICTURE OR BAR GRAPH

When answers name kinds of things, count how many people pick each kind. Show the counts in a picture graph or bar graph.

One student picks this as a favorite shape.



LINE PLOT

When answers are numbers, show how many people give each number on a line plot.

One student gets home at this hour.



1 SORT

8 items

For Part 1, circle the graph that fits each answer; for Part 2, choose one answer from each graph group and explain how you knew.

1.

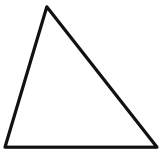


Figure 1

KINDS NUMBERS

2.

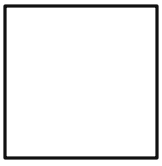


Figure 2

KINDS NUMBERS

3.



Figure 3

KINDS NUMBERS

4.

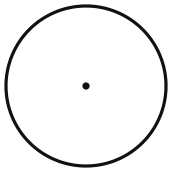


Figure 4

KINDS NUMBERS

5.



Figure 5

KINDS NUMBERS

6.



Figure 6

KINDS NUMBERS

7.



Figure 7

KINDS NUMBERS

8.



Figure 8

KINDS NUMBERS

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 a new favorite-shape answer and a new get-home hour answer. Name the graph that fits each one.

KINDS _____

NUMBERS _____

CHALLENGE

Three students picked the shape in Figure 1, and two picked the shape in Figure 2. Which graph could show their answers? Tell what it would show.

ANSWER KEY

Pick the Graph

GRADE 2 · 2.DS.A.1.c

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (triangle)	**KINDS**	The answer names a kind of shape.
2	Figure 2 (square)	**KINDS**	The answer names a kind of shape.
3	Figure 3 (clock 2:00)	**NUMBERS**	The answer gives an hour.
4	Figure 4 (circle)	**KINDS**	The answer names a kind of shape.
5	Figure 5 (clock 3:00)	**NUMBERS**	The answer gives an hour.
6	Figure 6 (clock 4:00)	**NUMBERS**	The answer gives an hour.
7	Figure 7 (rectangle)	**KINDS**	The answer names a kind of shape.
8	Figure 8 (clock 5:00)	**NUMBERS**	The answer gives an hour.

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)

- **KINDS**: Heart, picture graph.
- **NUMBERS**: 6:00, line plot.

Challenge: A bar graph could show a bar of 3 for triangles and a bar of 2 for squares.

For Part 2, accept explanations that identify a shape as a kind and an hour as a number. A picture graph or bar graph fits Figures 1, 2, 4, and 7; a line plot fits Figures 3, 5, 6, and 8.