

How Many Pets?

Some of the students in Mr. Brochu’s class wanted to explore the number of pets they had.

Here’s what they found out:



Mackenzie – 2 cats, 2 dogs, 2 rabbits

Miguel – 3 dogs

Nikki – 1 dog

Tanya – 3 cats, 4 fish

Brett – 1 iguana

Todd – 1 cat, 1 dog, 5 fish

Hannah – 1 cat, 2 dogs

Oona – 1 rabbit

Part A. A table that organizes the information has been started for you below. Finish it. Don’t forget the totals.

Name	Dogs	Cats	Fish	Rabbits	Iguanas	Total
Mackenzie	2	2		2		6
Nikki	1					1
Totals					1	

Part B. They talked about some questions that they could answer about pets, like:

1. Who has the most pets?
2. Are there more cats or dogs?

Write 2 **new** questions they can answer based on the data in the chart:

3. _____

4. _____

Part C. Use the information from the table to **answer 2** of the 4 questions in Part B.

Question # _____ Answer: _____

What numbers from the table helped you answer your question?

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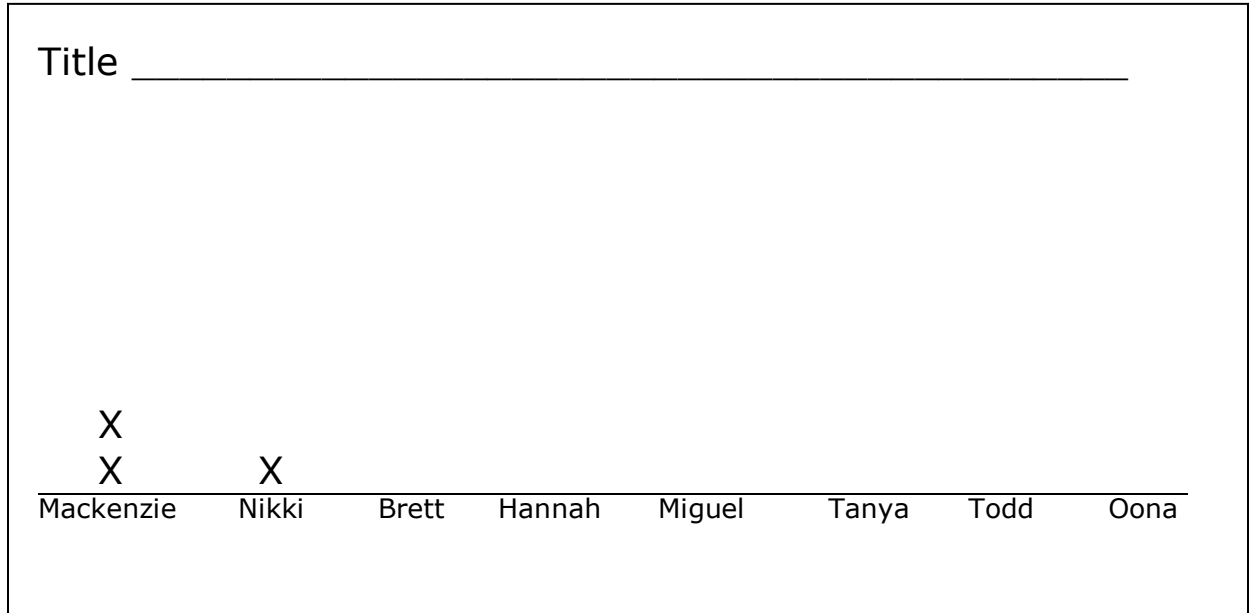
Brett – 1 iguana

Todd – 1 cat, 1 dog, 5 fish

Hannah – 1 cat, 2 dogs

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Part D. Make a line plot that just shows **how many dogs** the students have. The line plot has been started for you. Remember to write a title for your line plot.



Hannah noticed that Mackenzie has one more dog than Nikki. Make **at least 2 other statements** that compare the number of dogs students have.

How Many Pets? Scoring Guide

Standard: Students will understand and apply concepts of data analysis.

Performance Indicator	1 Doesn't Meet	2 Partially Meets	3 Meets	4 Exceeds
C. 1 Formulate and solve problems by collecting, arranging, and interpreting data.	<ul style="list-style-type: none"> • Most or all of the data displays are incorrect. • No questions are formulated or questions can't be answered using the data provided. • Few/no solutions, interpretations and comparisons are correct. 	<ul style="list-style-type: none"> • Some parts of the data displays are correct, OR one display is correct and the other one isn't. • Questions, solutions and comparisons demonstrate partial understanding of how to read and interpret the data. • Flaws or omissions indicate gaps in understanding. 	<ul style="list-style-type: none"> • Most data displays are correct. • Questions, solutions, and comparisons demonstrate understanding of how to read and interpret the data. • Minor flaws do not indicate gaps in understanding. 	<ul style="list-style-type: none"> • All data displays are correct. • Questions, interpretations, solutions and comparisons are correct. One or more of these components is sophisticated or shows complexity.

Unpacking “How Many Pets?”

Assessment Component	Knowledge, Skills & Understanding (Evidence)	Performance Indicator
A	Read and transfer/arrange information from list into the table Add columns and rows	Arrange Solve
B	Formulate questions that can be answered by the data provided	Formulate
C	Answer questions Cite numbers from the table that help answer questions	Interpret Solve
D	Transfer information about dogs into line plot (know what horizontal axis represents, how to represent numbers with x's, title)	Arrange
E	Read/interpret line plot Make comparison statements about dogs	Interpret