## NCTM Process Standards Rubric

 Data Analysis \& Probability - Drill Sheets| О Мวโลว】 | $\ggg>$ | $\ggg$ | $\rangle>$ | $\rangle>$ | $\rangle>$ |
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1a) The triple bar chart below shows the results of a survey done with students in three classrooms. The students were asked which pie flavor is their favorite.
Ex: How many students are there in all 3 classes? 59


i) How many students are in Ms. Li's class?
ii) How many students are in Mr. Crocker's class?
iii) How many students are in Mrs. Smythe's class?
iv) How many students in Mrs. Smythe's class like
v) How many students in Mr. Crocker's class like cherry
vi) How many students in Ms. Li's class did pie as a favorite?
vii) Which two classes had two stuc swi phed Keam pie?
viii) How many more stude n Mrs rm, $\downarrow$ 's dass liked apple pie than cherrmie?
ix) Three studer s in Ms. Li's
x) How many n wre nt n Mrs. Smythe's class liked apple pie than students whg iked apple pie in Ms. Li's class?
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xi) How many ma stı ents in Mr. Crocker's class liked pumpkin pie than cream pie?
xii) How many students in Mrs. Smythe's class liked cherry or pumpkin pie?

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xiii) The same amount of students in what two classrooms liked cherry pie?
xiv) The most popular pie in all three classes was what flavor?
xv) The least popular pie in all three classes was what flavor?
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xvi) What was the average number of students who voted for apple pie as their favorite?

Conduct your own survey in your class about favorite desserts. Make a graph to show your results.

## Review A

a) The line plot below shows how many students have each number of pets at home.

Mrs. Jones Class Pet Survey

|  | $X$ |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $x$ | $x$ | $x$ |  |  |  |  |  |  |
| $x$ | $x$ | $x$ | $x$ |  |  |  |  |  |
| $x$ | $x$ | $x$ | $x$ | $x$ | $x$ |  |  | $x$ |
| 0 pets | 1 pets | 2 pets | 3 pets | 4 pets | 5 pets | 6 pets | 4 pets | 8 pets |

i) How many students took this survey?
ii) How many students had no pets?
iii) How many more students had 1 pet
iv) How many total students had
v) What is the mode of nu
vi) What percent of the sti le, ha a nopets?
vii) What perce of of the stu ents veve 8 pets?
viii) What fraction of stug en own 2 pets?
ix) One-fourth of adents own how many pets?
x) The number of students who own four, five, or six pets is equal to the number of students who owns how many pets?
xi) Twice as many students own how many pets as own 4 pets?
xii) What is the ratio of students who own 3 pets to students who own 6 pets?
xiii) How many total pets does this class have?
xiv) What fraction of the total pets are owned by people who own 3 pets?
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$\qquad$
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$\qquad$
xv) What fraction of the total pets are owned by people who own 6 pets? $\qquad$
xvi) What is the average number of pets people had?

## Ordering

The graph below shows the size of the U.S. military forces. Working with a partner or in a small group, use this graph to complete the activity.

a) List the arme
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b) List the armed forces reserved sizes from least to greatest.
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c) List three comparisons that can be drawn between the armed forces.
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d) List four conclusions that can be drawn from this data.

