

NAME _____ DATE _____ PERIOD _____

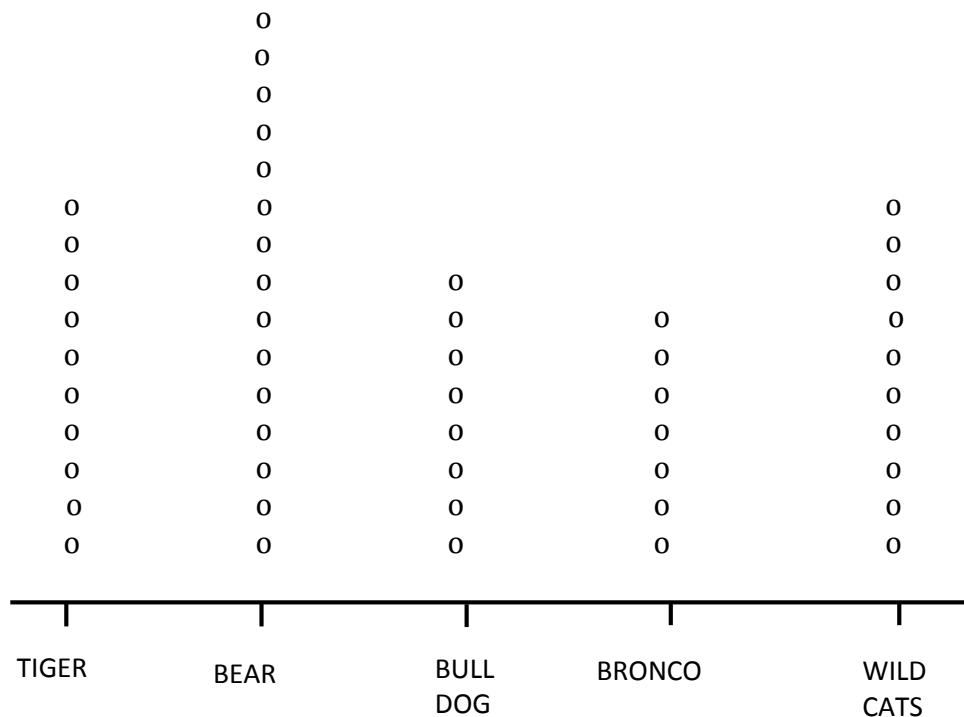
The 7th grade at Adams Middle School has 250 students. The Student Council surveyed 5 students from each of 10 7th grade homerooms. Each student was asked the following question:

Which of the following mascots would you like to have for our school?

The tallied results are shown below.

	TIGER	BEAR	BULL DOG	BRONCO	WILD CATS
Homeroom 1					
Homeroom 2					
Homeroom 3					
Homeroom 4					
Homeroom 5					
Homeroom 6					
Homeroom 7					
Homeroom 8					
Homeroom 9					
Homeroom 10					
TOTAL	10	15	8	7	10

Based on the survey, they made this dot plot:



The Student Council came to the following conclusion about their survey:

1. The sample was random. Student Council visited each homeroom. Five random students from each were surveyed.
2. The WILD CATS should be the new mascot. Twenty students answered TIGERS or WILD CATS. Since both are wild cats, it is more than the 15 responses for the BEARS.

Use the following rubric to assess the work, data display, and conclusion to determine if the survey is fair. Use the space at the bottom to explain your grading.

LEVEL	4	3	2	1
Samples size	Appropriate size for the population	Size is too big for the population	Size is too small for the population	Can't determine size of sample
Sample technique	The survey is random	The survey attempts to be random, but misses	The survey does not attempt to be random	Can't determine randomness
Survey/ Population	The correct population is surveyed	Survey population is confusing	Survey population is incorrect	No population is stated
Data collection	The data is reported accurately and is easy to read	The data is reported accurately, but is confusing	The data is not reported accurately	No data is reported
Organization of Data	Easy to read and understand the meaning of the data	Confusing to read, but I can figure it out what data means	Confusing to read, can't figure out what data means	No organization
Display method	Graph or display is easy to understand	Graph or display is difficult to understand	Graph or display does not use the data collected	No graph or display
Conclusion about the population	Gives an unbiased, easy to understand answer to the survey	Gives an unbiased answer to the survey, but it is not easy to understand	Gives a biased answer to the survey	Does not give an answer to the survey

Explanation of Rankings: