

Unit 6: Statistics Performance Task:
What is a typical $\sigma^{\text {th }}$ grader like???

Project is due: Friday, 1/24/20

1) $\qquad$ Come up with 3 statistical questions to survey your peers about. You may wish to include answer choices for each one. The questions must yield numerical data. Be creative with your questions! Make them interesting! ©
2) $\qquad$ What do you predict? Write a paragraph (minimum 3 sentences) for EACH of your 3 questions, predicting the outcomes. What do you think will be "typical?"
(Steps 1 \& 2 MUST be submitted and approved before conducting your survey.)
3) $\qquad$ Conduct your survey! Ask a minimum of 25 sixth graders.
4) $\qquad$ Graph your data for each question. You must have one dot plot, one histogram, and one box plot. (One for each question - not 3 graphs for each question.) Each graph MUST be neat, colored, and titled. Include axis labels on the histogram.
5) ___ Analyze your data in a paragraph for each question. Explain your conclusions. Include at least one measure of center, one measure of spread, and one observation about the shape for each graph. Also, compare your findings to your predictions. Were you surprised by anything, or were you on point?
6) $\qquad$ Display your project! You may create a poster, PowerPoint, Prezi, PowToon, booklet, video, brochure, etc. Be creative, NEAT, and thorough!
[^0]Project Parts 1 \& 2: 3 Statistical Questions and Predictions

## Question 1:



Prediction:

Question 2:
Prediction

## Question 3:

Prediction:

Name: $\qquad$

Statistical Question \#1:


Statistical Question \#2:


Statistical Question \#3:

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"What is the Typical 6 ${ }^{\text {th }}$ Grader Like?" Rubric


## Analysis of Data (Optional Draft/Notes sheet)

## Question 1:

dot plot
histogram
box plot
measure of center (identify and give value): $\qquad$ measure of spread (identify and give value): $\qquad$ measure of shape (identify and give value): $\qquad$
compare to prediction:

## Question 2:

dot plot
histogram
box plot
measure of center (identify and give value): $\qquad$ measure of spread (identify and give value): $\qquad$ measure of shape (identify and give value): $\qquad$
compare to prediction:

Question 3:
dot plot
histogram
box plot
measure of center (identify and give value): $\qquad$
measure of spread (identify and give value): $\qquad$
measure of shape (identify and give value): $\qquad$
compare to prediction:


[^0]:    *It is your choice to work alone or in a pair. If you work in a pair, you must have a total of SIX questions instead of three. We may conduct "peer reviews" of projects on Friday, and that may be factored into your grade.

