MiPAC
Michigan Performance Assessment Cadre

CBE Assessment

Performance Assessment MA.6.13
Data Displays
Grade 6

STUDENT BOOKLET

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Date: 2-12-25

ACKNOWLEDGEMENTS

The scoring rubrics shown in this booklet are adapted from those developed by the Center for Assessment, under Creative Commons license Attribution 4.0 International (CC BY 4.0)

MICHIGAN Department of Education

MiPAC Michigan Performance Assessment Cadre

DATA DISPLAYS

Today you will be asked to display your own data in a dot plot, histogram, and a box plot.

You will have 45 minutes to complete all parts of the assessment. The assessment problems on pages 3-6 in your booklet. You will work through them on your own.

The Teacher Scoring Rubric that will be used to evaluate your calculations and reasoning is shown below. Be sure to review the Exceeding Expectations column.

Teacher Scoring Rubric—Student Version			
Dimensions	**Not Yet Meeting Expectations**	**Meeting Expectations**	**Exceeding Expectations**
Reasoning and Explaining	I can explain some of how I solved the problem. (chose a display, but cannot justify why it is most appropriate)	I can explain the thinking I used to solve the problem using some math vocabulary. (chose a display and can justify why it is most appropriate)	I can explain the thinking I used to solve the problem using precise math vocabulary in a way that another person can easily understand my math reasoning. (chose a display and can justify why it is most appropriate)
Modeling and Using Tools	I can interpret a model and/or create a partial model to represent a real-world math concept or relationship, but it is inaccurate or incomplete.	I can create and/or interpret a model to represent a real-world math concept or relationship.	I can accurately create and/or interpret a model to represent a real-world math concept or relationship.

You will have the remainder of this class to complete this assessment.

Do you have any questions about what you are expected to do?

You may now begin. Remember, you have the rest of this class period to complete this assessment.

When time is up, please pass your Student Booklet to your teacher.

STUDENT MATERIALS

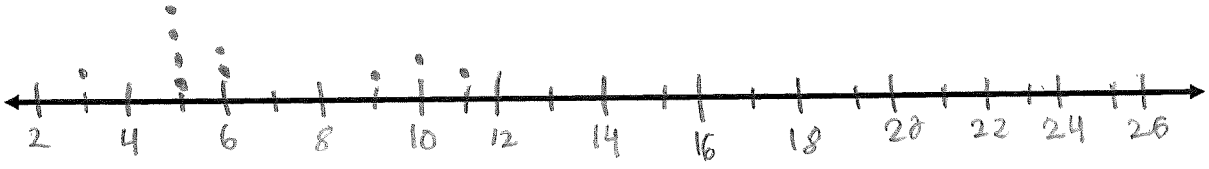
PROBLEM 1 – DATA DISPLAYS

Select any ten words of your choosing and list them in the table below. The words should have a variety when you consider how many letters are in each word (i.e. shouldn't be all 3-letter words). Count the number of letters in each word.

Word	# of letters
Amari	5
Hotdog	6
frenchfry	9
Chicknuggit	11
Mac'n cheese	10
ate	3
Water	5
Uncle	5
Yacht	5
Hoodie	6

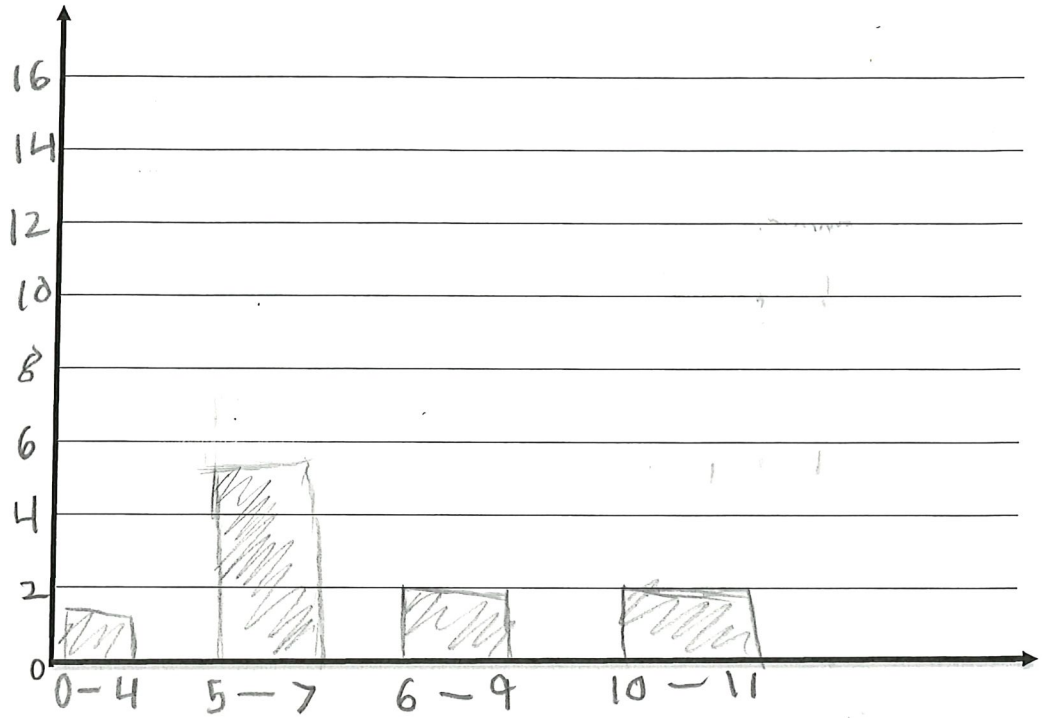
Show your findings (data) on a dot plot. Make sure to add a numbered scale and labels.

2, 4, 6, 8, 10



PROBLEM 2 – DATA DISPLAYS

Now, share your findings (same data from Problem 1) in a histogram with at least 3 intervals. Make sure to add a scale and labels.



range

space

PROBLEM 3 – DATA DISPLAYS

Now, share your findings (same data from Problem 1) in a box plot. Make sure to add a numbered scale and labels including the 5 key points on a box plot.

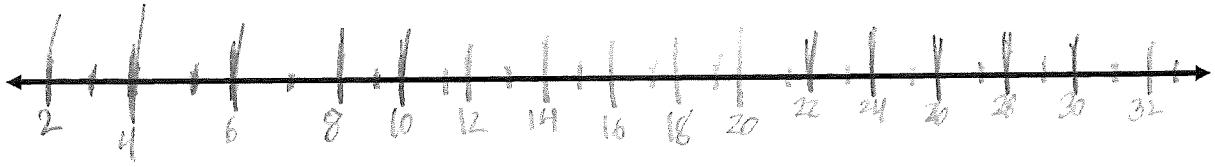
min = 3, 5, 5, 5, 5, 6, 9, 10, 11

max 3, 5, 5, 5, 5, 6, 9, 10, 11

middle

Lower

3, 5, 5, 5, 5, 6, 9, 10, 11



min = 3

Lower = 5

middle = 5.5

upper = 9

max = 11

PROBLEM 4 – DATA DISPLAYS

Which of the three data displays do you think best tells your data story? Why?

The box graph because you can see what the middle is without much effort.