

## **CBE Assessment**

Performance Assessment MA.6.13

Data Displays

Grade 6

## **STUDENT BOOKLET**

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## ACKNOWLEDGEMENTS

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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)



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## 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
<b>Reasoning and Explaining</b>	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)
<b>Modeling and Using Tools</b>	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.

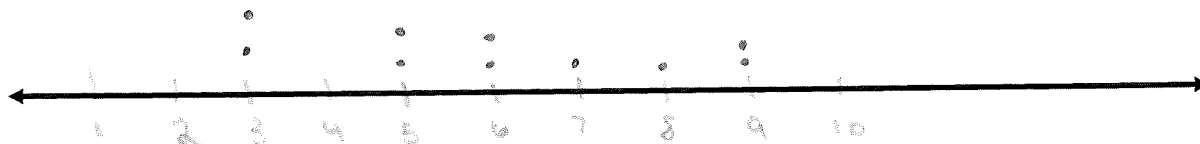
## STUDENT MATERIALS

### 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.

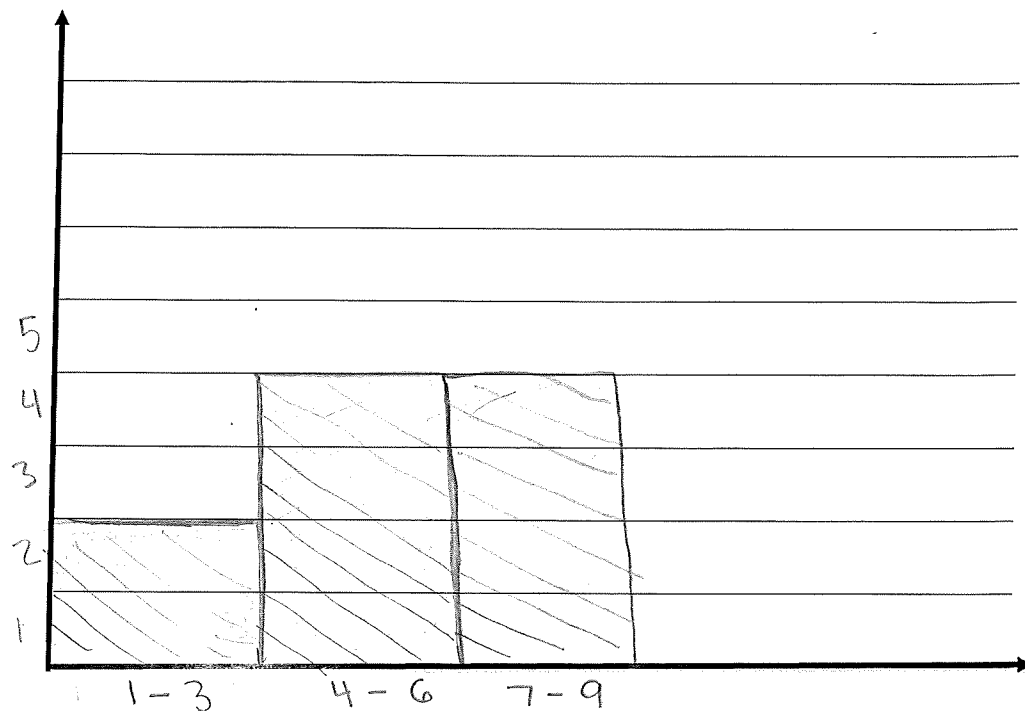
Word	# of letters
cat	3
geometry	8
kitchen	7
bookshelf	9
large	5
dog	3
clipboard	9
super	5
people	6
canned	6

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



**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.



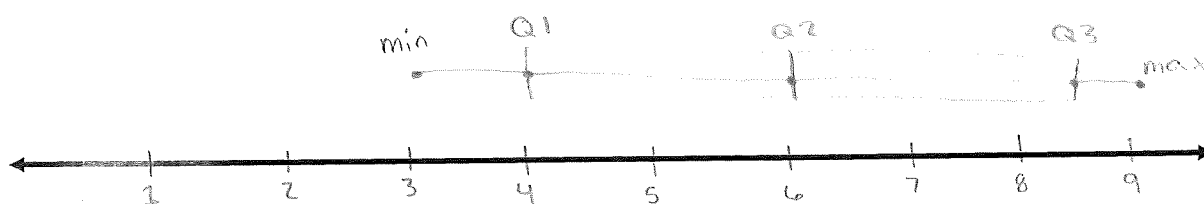
### PROBLEM 3 – DATA DISPLAYS

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.

$\frac{3}{\text{min}}$     $\frac{4}{Q1}$     $\frac{6}{Q2}$     $\frac{8.5}{Q3}$     $\frac{9}{\text{max}}$

3, 3, 5, 5, 6, 6, 7, 8, 9, 9

3, 3, 5, 5, 6, 6, 7, 8, 9, 9



**PROBLEM 4 – DATA DISPLAYS**

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

I think a dot plot shows this best  
because it shows <sup>exactly</sup> how many of each  
number there were.

