

## Teacher's Observation from the Unit Review

Student's name: \_\_\_\_\_

MA.E.1.2.1.5.3

Chose a reasonable title for the graph

MA.E.1.2.1.5.3

Chose an appropriate scale/interval

MA.E.1.2.1.5.3

Labeled each bar of your graph (bar graph only)

MA.E.1.2.1.5.3

Labeled all the parts (circle graph only)

MA.E.1.2.1.5.5

Interpreted and completed a circle graph

MA.E.1.2.1.5.6

Analyzed and explained in writing the implications of the graphed data.  
Included two comparative statements completely describing the relationships between the graphs

MA.E.1.2.2.5.1

Recorded the data for the girls' portion of the survey in a stem-and-leaf plot

MA.E.1.2.2.5.1

Recorded the data for the boys' portion of the survey in a stem-and-leaf plot

MA.E.3.2.1.5.4

Identified the range, mean, median, **AND** mode for the girls' data using the stem-and-leaf plot

MA.E.3.2.1.5.4

Identified the range, mean, median, **AND** mode for the boys' data using the stem-and-leaf plot

**Area(s) that the student needs additional practice to prepare for the summative assessment:**

## **Steps for data collection:**

1. Design questions for the survey that require more than a yes or no response.
2. Conduct a survey and collect responses to the survey (answering one or more telling questions).
3. Use a stem-and-leaf plot to organize the data collected from the survey.
4. Identify the range, mean, median, and mode (also known as the measures of central tendency) of the data.
5. Acquire a representative sample for your survey.
6. Display the data collected from the survey in a line, bar, and/or circle graph (depending on the kind of information that you collected).

## Short-Answer Question Rubric

	<b>2</b>	<b>1</b>	<b>0</b>
<p><b>Explaining &amp; Interpreting your Answer</b></p> <p><b>MA.E.1.2.1.5.6</b> The student analyzes and explains orally or in writing the implications of the data.</p> <p><b>LA.B.2.2.1.5.1</b> The student writes notes, comments, and observations that reflect comprehension of fifth-grade or higher level content and experiences from a variety of media.</p>	<p>You explain the implications of the data so correctly and completely that someone else can find the answer. When asked, you make true statements about the given answer.</p>	<p>You explain the implications of the data, but leave out steps that are needed to guide the reader to the correct answer. When asked, you attempt to make true statements about the given answer.</p>	<p>Your explanations and interpretations are incorrect, misunderstood, or not given.</p>
<p><b>What each level means...</b></p>	<p><i>A score of two means your explanation shows a complete understanding of the math concepts and critical thinking used in the problem.</i></p>	<p><i>A score of one means your explanation shows a partial understanding of the math concepts and critical thinking used in the problem.</i></p>	<p><i>A score of zero means your explanation was completely incorrect, not understood, or that you gave no response at all.</i></p>

FCAT format adapted from Harcourt Brace & Company: The Math Advantage by Kristy Rousseau

## ACTIVITY FOR CLOSING THE CASE

**Detective** \_\_\_\_\_

1. What were the steps involved for data collection?

Lesson 1: \_\_\_\_\_

Lesson 2: \_\_\_\_\_

Lesson 3: \_\_\_\_\_

Lesson 4: \_\_\_\_\_

2. Using the handout, "Steps for Data Collection" identify how each of the steps were followed as you sought to answer the question, "How much time should the average 5<sup>th</sup> grade student spend on homework to make good grades?"

\*Be sure to write notes on your handout as we discuss this.

### DATA RESULTS

How much time should a student spend doing homework in each subject? (minutes per night)				Boy or Girl?
Math	English	Social Studies	Science	
15	10	15	20	B
60	10	30	30	B
10	25	15	10	B
20	30	10	10	B
5	30	0	10	B
10	30	0	5	B
15	25	15	5	B
25	15	30	20	B
10	60	10	12	B
20	15	0	10	G
30	35	30	15	G
30	45	20	10	G
30	20	30	30	G
15	20	34	10	G
20	3	29	8	G
0	10	5	5	G
15	30	30	30	G
10	28	10	5	G

You may work in groups in 2 -3 for the remaining of this handout.

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3. Now, using the complete set of data results from your surveys and the handout of the "Data Display Summative Review Checklist," complete pages 2 - 5.

**BOYS**

**MATH**

**ENGLISH**

**SOCIAL ST.**

**SCIENCE**

stem	leaf

stem	leaf

stem	leaf

stem	leaf

**BOYS**

	Range	Mean	Median	Mode
MATH				
ENGLISH				
SOCIAL STUDIES				
SCIENCE				

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**ACTIVITY FOR CLOSING THE CASE  
GIRLS**

MATH		ENGLISH		SOCIAL ST.		SCIENCE	
stem	leaf	stem	leaf	stem	leaf	stem	leaf

<b>GIRLS</b>				
	Range	Mean	Median	Mode
MATH				
ENGLISH				
SOCIAL ST.				
SCIENCE				

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## ACTIVITY FOR CLOSING THE CASE

### MINUTES SPENT STUDYING PER NIGHT

MATH	NUMBER OF STUDENTS	FRACTION OF THE CLASS	fraction of class x 360 = degrees in a circle
0-10 minutes			
11-20 minutes			
21-30 minutes			
31 + minutes			

### MINUTES SPENT STUDYING PER NIGHT

ENGLISH	NUMBER OF STUDENTS	FRACTION OF THE CLASS	fraction of class x 360 = degrees in a circle
0-10 minutes			
11-20 minutes			
21-30 minutes			
31 + minutes			

### MINUTES SPENT STUDYING PER NIGHT

SOCIAL STUDIES	NUMBER OF STUDENTS	FRACTION OF THE CLASS	fraction of class x 360 = degrees in a circle
0-10 minutes			
11-20 minutes			
21-30 minutes			
31 + minutes			

### MINUTES SPENT STUDYING PER NIGHT

SCIENCE	NUMBER OF STUDENTS	FRACTION OF THE CLASS	fraction of class x 360 = degrees in a circle
0-10 minutes			
11-20 minutes			
21-30 minutes			
31 + minutes			

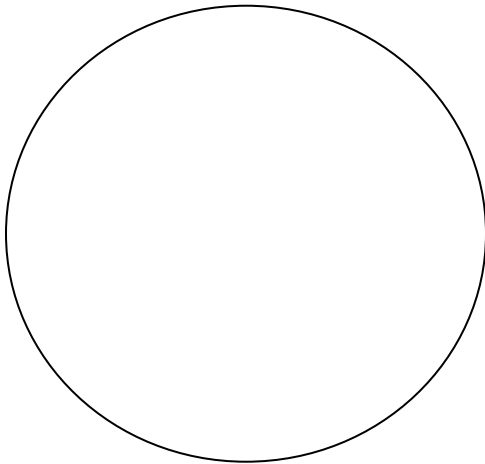
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### ACTIVITY FOR CLOSING THE CASE

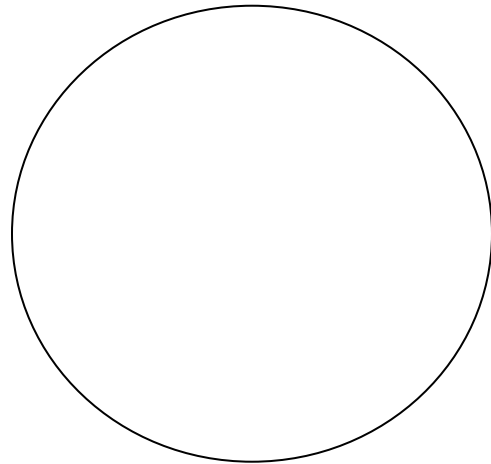
Display the data results from page 2 and 3 in a double bar graph showing the mean for each subject. Use grid paper to complete your double bar graphs.

Use this sheet of paper to complete your circle graphs. Use the information from page 4.

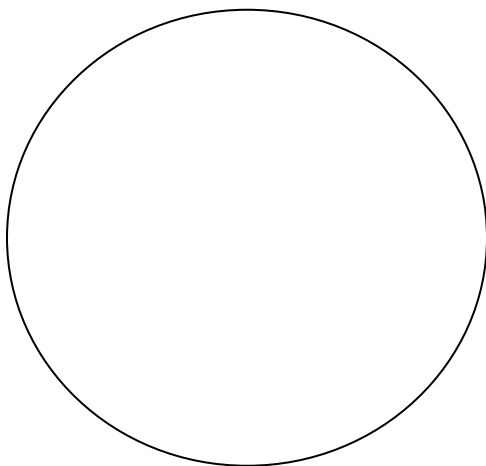
MATH



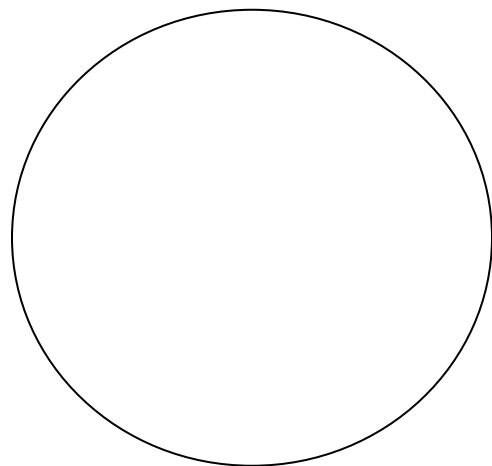
ENGLISH



SOCIAL STUDIES



SCIENCE



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### ACTIVITY FOR CLOSING THE CASE

Write two comparative statements for your double bar graph.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

Write two comparative statements for your circle graphs.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

Define:

1. Range \_\_\_\_\_

2. Median \_\_\_\_\_

3. Mode \_\_\_\_\_

4. Mean \_\_\_\_\_

5. Central Tendency \_\_\_\_\_

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