

Algebra 1 Examination 1

Answer the following question on your own paper. Indicating the problem number, and covering all the subparts of the question. **DO NOT** write on this paper. You may use your notes, and Portfolio, and are **REQUIRED** to use a graphing calculator.

1. What is your assigned number? What is your remainder when you divide your number by 7?
2. Measure the following items, based on your remainder. Measure in both inches and centimeters.

Remainder	Thing to measure
0	Height of your desk
1	Width of this paper
2	Length of the word Examination at the top of this page
3	Height of this table of instructions
4	Width of your calculator screen
5	Thickness of your calculator with the scab on
6	Length of your link cable, tip to tip

3. What is my e-mail address? What is yours? What is the URL for FASST?
4. For the following student, state the scores that were made on their Algebra 1 Portfolio, based on the information listed in the **BOB** list.

PORTYc	BOB	Score
OVER	6	
SYS	18	
TEST	9	
TECH	10	
GROW	3	
FREE	0	
JOUR	10	
Name=		

5. If a person made the following scores on their Algebra 1 Portfolio, what would their grade be? Is this score higher, or lower than yours?

Item	Trial
Overarching Process	4
7 Systemic Parts of Algebra	4
Your Ability to Test	NA
Working with Technology	2
Growth	3
Free Choice	1
Journal	2

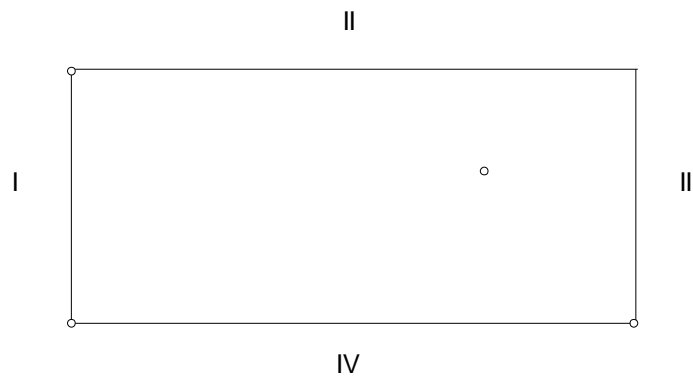
6. Given the following set of data for the lengths in centimeters of a collection of puppies, answer the questions.

19	24	15	27	21	21	19	20	20	12	12
20	27	26	18	13	12	20	27	23	17	

- Find n
 - Find the sum
 - Find the Maximum
 - Find the Minimum
 - Find the Range
 - Find the Mean
 - Find the Median
 - Find the Mode(s)
 - Find the average length of these pups
 - Make a Histogram and save it on your calculator as **PIC4** with the WINDOW settings in **GDB4**
 - Find the Deviation if Real Pups are 170 millimeters long.
 - Make a Box and Whiskers and save it as **PIC5**
 - Convert the measures to inches.
 - Describe the pattern you see for the lengths for these pups.
7. If the lengths of the parents of the above pups are reported in the table below, with their pup's lengths, plot the data and describe the pattern in the graph.

PUP	FOLKS
19	69
24	123
15	35
27	161
21	89
21	89
19	69
20	79
20	79
12	15
12	15
20	79
27	161
26	148
18	60
13	21
12	15
20	79
27	161
23	111
17	51

8. Describe the Algebra web page that you reviewed in the Look Me Up activity.
9. Calculate the following:
- $-3 + -2$
 - $5 - 7 - 4 - 3 + -5$
 - $-5 * -7 * 11 * -8$
10. Given the following position in the room, and these coordinates ($X = 7.51$ meters, $Y = -4.31$ meters), tell which walls are the X-axis, and which are the Y-axis. Sketch the drawing below, and mark the Origin in the appropriate corner on your drawing.



11. Name three differences between the TI-73 graphing calculator and the TI-83.
12. Given the following rule, generate a set of 7 X-values between -11 and -3 . Use these values in the rule to produce 7 Y-values. Plot these pairs. Sketch the graph, Give the WINDOW, and describe the pattern in the graph.

$$Y = \frac{3}{5}X - 11$$