## Friday, October 12, 2018

- Warm-up
  - Many populations grow exponentially. Here are the data for the estimated population of Europe (in millions) from 1700 to 2012. The dates are recorded as years since 1700 (x = 312 is 2012)

Years since 1700	0	50	100	150	200	250	299	308	310	312
Population (millions)	125	163	203	276	408	547	729	732	738	740

- Use a logarithm to transform population size. Then calculate and state the least-squares regression line using the transformed variable.
- Use your model to predict the population size of Europe in 2020.
- Talk about Tests...

Objectives:

**Content**: I will reflect on and correct my thinking from the test. **Social**: I will be positive and help others think through their errors. **Language**: I will clearly write about my strengths and weaknesses. • Many populations grow exponentially. Here are the data for the estimated population of Europe (in millions) from 1700 to 2012. The dates are recorded as years since 1700 (x = 312 is 2012)

Years since  
1700 A  
Population  
(millions) b  
125 163 203 276 408 547 729 732 738 740  
125 163 203 276 408 547 729 732 738 740  
125 163 203 276 408 547 729 732 738 740  
125 163 203 276 408 547 729 732 738 740  
125 163 165 1  
Use a logarithm to transform population size. Then calculate and state the least-squares regression line using the transformed variable. 
$$\log(pop) = 2.079 + 0.002$$
 years  
• Use your model to predict the population size of Europe in 2020.  
 $\log(pop) = 2.079 + 0.002$  56 (320)  
 $\log(pop) = 2.719$   
 $\log(pop) = 2.719$ 

S:

**Content**: I will reflect on and correct my thinking from the test. **Social**: I will be positive and help others think through their errors. Language: I will clearly write about my strengths and weaknesses.

## Tests

## On your own paper, set up a table like:

Correct (at least) (at least) 2 MC and your lowest FR Use the chart below to complete your test corrections and reflection. The following choices can be used as your reflection. You can pick more than one if needed.

- I read the guestion incorrectly.
- I misread the answer I selected.
- 3. I did not read all the available choices. (for multiple choice questions only)
- I did not study this particular topic enough.
- I need to put more detail into my answer.
- 6. I need to write my answer in a complete sentence.
- I did not understand what the question was asking. 7.
- Other... (If you choose this selection, you must include a detailed written response explaining 8. why you answered the question incorrectly.)

Problem Number (multiple part questions each need their own space)	Question/Answer Rewrite the problem you answered incorrectly with the CORRECT ANSWER.	Student Reflection Think about why you answered the question incorrectly. Select a reflection choice that identifies why you got the problem wrong.
	<b>Content</b> : I will	<u>Objective</u> reflect on and correct my thinking from the tes
	Social: I will be po	sitive and help others think through their error learly write about my strengths and weaknesse