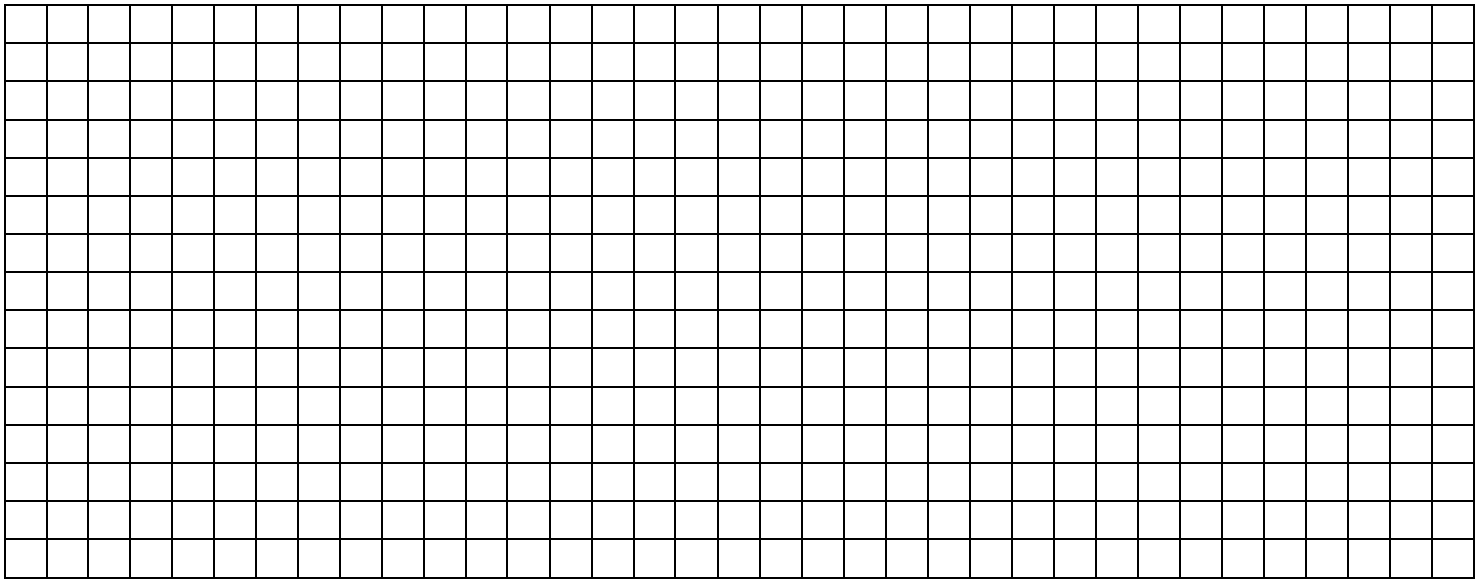


Scatter Plot –Jerry’s Laptop

Name: _____



Jerry forgot to plug in his laptop before he went to bed. He wants to take the laptop to his friend’s house with a full battery. The pictures to the right show screenshots of the battery charge indicator after he plugs in the computer at 9:11 AM.



Questions:

- 1) Is the correlation positive or negative? Why do you think this is?
- 2) What type of correlation is represented by this situation? Estimate the value of the correlation coefficient r .
- 3) Draw a line of best fit and find the equation for it. What does the slope of the equation represent?
- 4) Use your **equation** to estimate the time when Jerry will have a fully charged laptop.
- 5) With your TI-Nspire, perform a linear regression. When will Jerry have his laptop fully charged based on the line of best fit?