1. Let http://s3.amazonaws.com/answer-board-image/cramster-equation-20111042045256345335792546883849837.gif where Yi is the number of hot dogs sold at an amusement park on a given day, Xi is the number of admission tickets sold that day, Zi is the daily maximum temperature, and ui is a random error.

a) State whether

each of http://s3.amazonaws.com/answer-board-image/cramster-equation-20111042051566345335831663590497408.gif is a coefficient or a variable.

b) Determine the units of http://s3.amazonaws.com/answer-board-image/cramster-equation-2011104205446345335844457614144965.gif  and describe the interpretation of each.

c) What are your expectations for the signs of http://s3.amazonaws.com/answer-board-image/cramster-equation-2011104205446345335844457614144965.gif (negative, zero, positive or

unsure)? Justify your answer.

d) Is it reasonable to allow for a non-zero intercept? Explain.