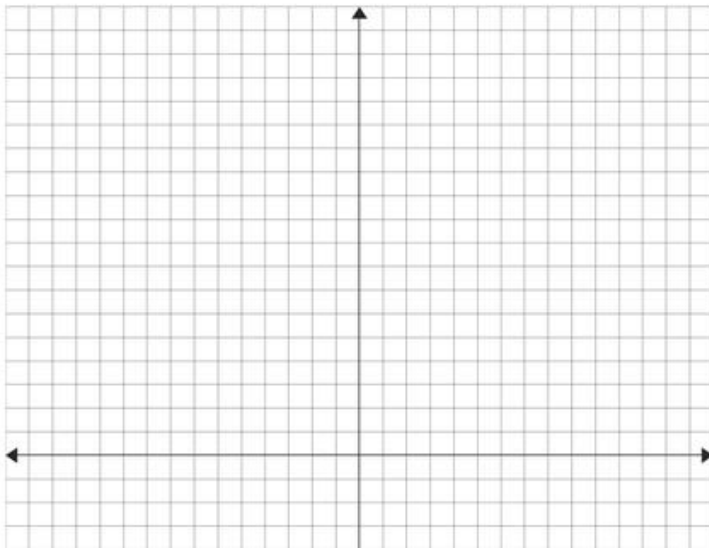Name_____ Date_____ Per_____

Integrated Math I: Modeling Linear Functions
Aluminum Can problem

Valerie Beltan-Soto is collecting cans to save money to donate to the homeless in Palm Springs. So far she has collected 100 pounds of aluminum cans to recycle. She plans to collect an additional 25 pounds each week. How can we write a linear model to represent her situation? What would be the x-intercept, and what does this mean? What would the y-intercept mean in this scenario? What does the slope represent?

a.) Write the linear function in slope-intercept form.

b.) Graph the function. Scale the numbers to make the graph fit.

c.) What is the x – intercept and what does this mean for Valerie? Is the information relevant?

d.) What is the y-intercept and what does this mean for Valerie?

e.) What is the slope and what does this mean for Valerie?