

M102: Modeling with Linear Functions and Equations

Post-Badge Task

Name: _____

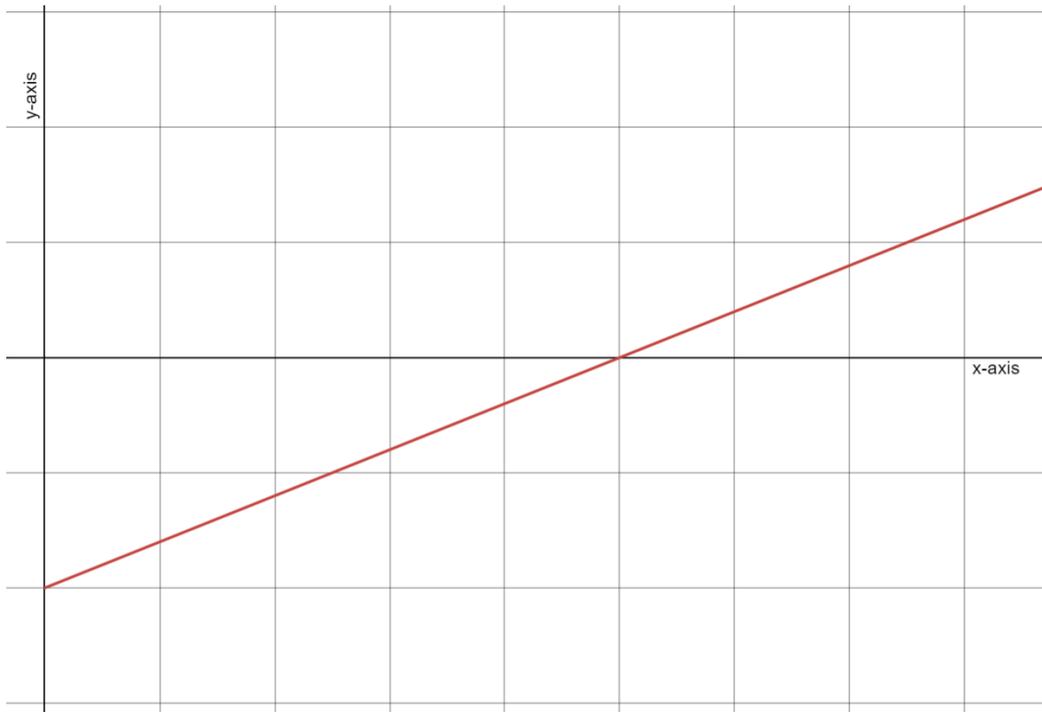
Teacher: _____

Reflecting on Badge Learning

Now that you have learned more about linear functions and their characteristics, respond to the questions that follow. These are the same questions you responded to before the start of this badge.

The Task

Use the graph below to answer the questions that follow.



QUESTION 1 Describe at least three things that you know or notice about this graph.



QUESTION 2

- a. What real world situation could this graph represent?
- b. Based on the situation, describe what the variables x and y represent.
- c. Based on the situation, create labels and a scale for the graph.



QUESTION 3

- a. What are the coordinates of the x -intercept? What does this point mean in this situation?

- b. What are the coordinates of the y -intercept? What does this point mean in this situation?



QUESTION 4 Write an equation that represents the relationship between the variables.



QUESTION 5 What are the coordinates of one other point on the line? What does this point mean in this situation?



QUESTION 6 Why is a line the best way to graphically represent the relationship between variables?



QUESTION 7 What else did you learn that was not reflected in Questions 1-6?



QUESTION 8 Compare your answers to these questions now to your answers from the earlier attempt. What do you notice about your progress?

