NAME:

From Graphs to Equations: Classwork

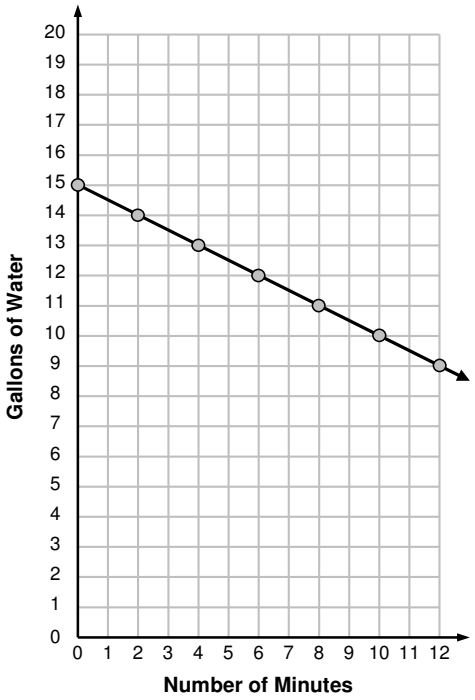
1. Use the graph to answer the following.

a. What was the starting amount?

b. What was the rate of change?

c. Write an equation that matches the graph. State what each variable represents.

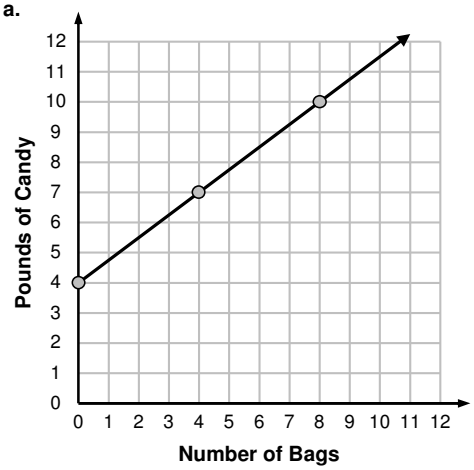
d. Write a story that matches the graph, then title the graph.



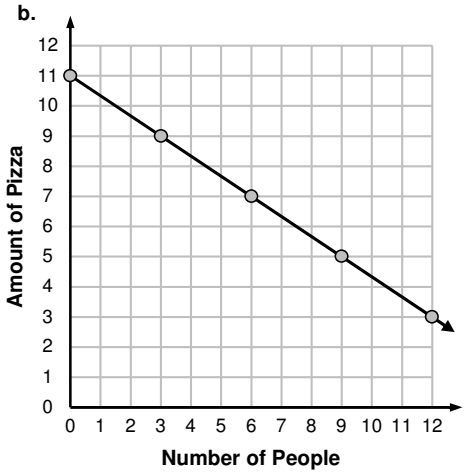
2. For each graph below:

- Write an equation that matches the graph, and state what each variable represents in the context of your story.
- Write a story that matches the graph, then title the graph.

a.



b.



NAME:

3. Sandy is making brownies for a party. She has already made 40 brownies, but plans to bake more. Each batch of brownies makes 24.

a. Write an equation for the total number of brownies ***t*** for any number of batches ***b***.

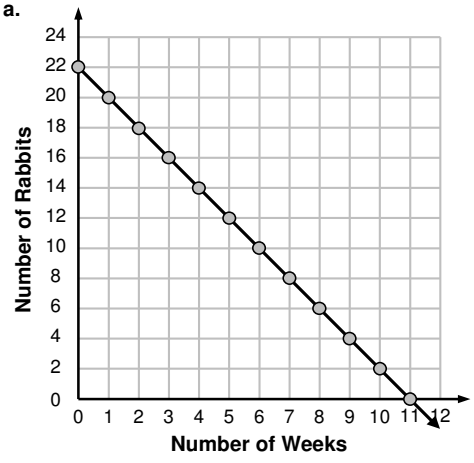
b. How many brownies will she have after baking 3 batches?
Use your equation to show how you know.

c. Sandy needs 260 brownies for the party. How many batches will she have to make?
Use your equation to show how you know. Round your answer so that it makes sense.

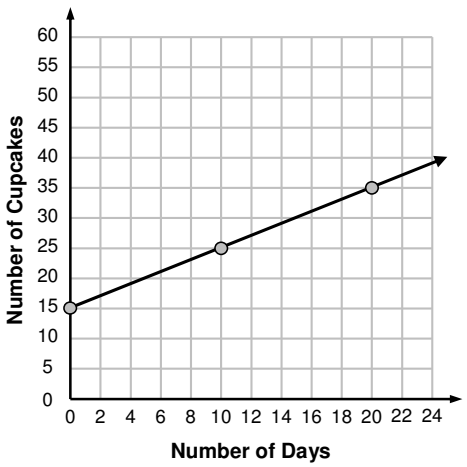
4. Be careful of the scale on these! For each graph below:

- Write an equation that matches the graph, and state what each variable represents in the context of your story.
- Write a story that matches the graph, then title the graph.

a.



b.

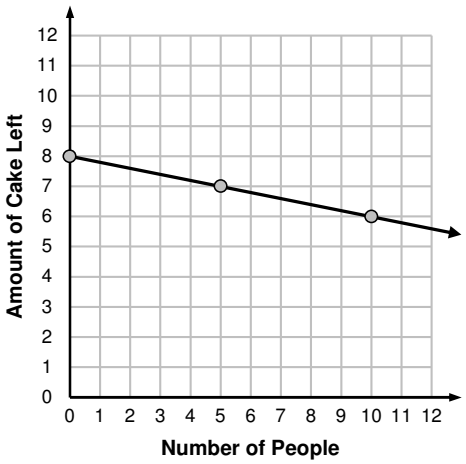


NAME:

From Graphs to Equations: Homework

5. For the graph on the right.

a. Write a story that matches the graph, then title the graph.



b. Write an equation that matches the graph. State what each variable represents.

6. Tim is ordering hoodies online. Each hoodie costs $7, and then there is a $19 shipping fee added to the final cost.

a. Write an equation for the total cost ***c*** for any number of hoodies ***h***.

b. How much would it cost to purchase 6 hoodies? Use your equation to show how you know.

c. How many hoodies can Tim buy for $100? Use your equation to show how you know. Round your answer so that it makes sense.