PRACTICE

1) Great Freights, a local shipping company, charges on the weight being shipped. The company charges *$0.40 per pound* and a one-time fee of *$10* to set up a customer's account.

a. How much does Great Freights charge if a package weighs 20 pounds? (Show work)

b. How much does Great Freights charge if a package weighs 50 pounds? (Show work)

c. If a customer paid $45 for shipping, what is the weight of a package?

d. Define the variables and write an equation for the problem.

   x represents _____

   y represents _____

   Equation: _____

2) Twin brother, Mike and Mark, are looking for winter break jobs. They are both offered jobs at grocery stores. Mike is offered a job at Fresh Foods making *$10 per hour*.

a. How much does Mike earn if he works 20 hours? 40 hours? 60 hours?

b. Define the variables and write an equation to represent Mike's earning.

   x represents _____

   y represents _____

   Equation: _____

c. Create a table using the data from part **(a)**.

Hours worked	Earnings ($)
0	
20	
40	
60	
80	
100	

Mark is also offered a job at Groovy Groceries making *$8 per hour*, plus a one-time bonus of *$100*.

d. How much does Mark earn if he works 20 hours? 40 hours? 60 hours?

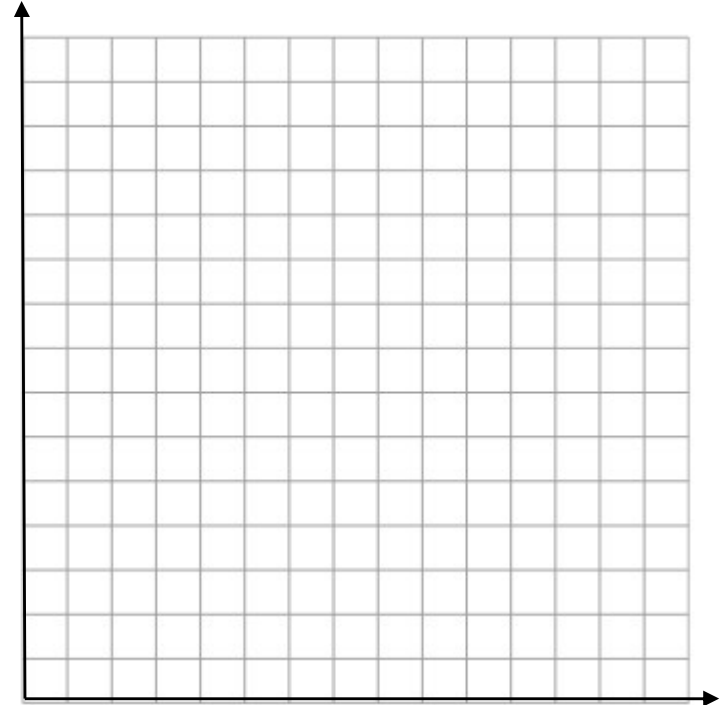**e.** Define the variables and write an equation to represent Mark's earning.

x represents _____

y represents _____

Equation: _____

f. Create a table using the data from part **(d)**.

Hours worked	Earnings ($)
0	
20	
40	
60	
80	
100	

g. Create a graph of the data in table in part **(c)** and **(f)**.

h. After how many will the Mike and Mark earn the *same* amount of money? Explain your reasoning.

i. Whose job is better? Explain your answer.