



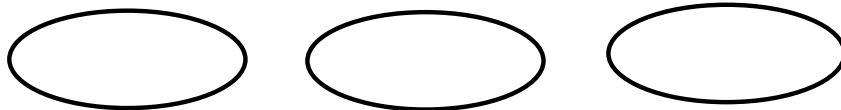
## Math Autobiography

*Please write a paragraph addressing the following items to help me get to know you and how you learn best.*



- What was your experience in math last year? What aspects of math do you like the best? worst?
- How do you learn best? How has a previous teacher helped you learn math?
- Why are you taking this course? Is it related to a career that you may be interested in? What are your current plans for when you finish high school?
- What are your other commitments this semester? What activities are you involved in (inside & outside school)?
- Is there anything else that you think I should know about you?

1. a) Make a concept map that shows different strategies you could use to graph  $2x - 4y = 8$ .  
b) Which strategy would you use? Explain why.



Graph!

Barb is withdrawing \$100 from her bank account. She asks for the money in \$5 bills and \$10 bills.



**?** Which combinations of \$5 bills and \$10 bills equal \$100?

- A.** If the teller gives Barb four \$10 bills, how many \$5 bills does he give her?  
**B.** List four more combinations of \$100. Record the combinations in a table.

Number of \$5 Bills	Number of \$10 Bills
	4

- C.** Let  $x$  represent the number of \$5 bills, and let  $y$  represent the number of \$10 bills. Write an equation for combinations of these bills with a total value of \$100.  
**D.** Graph your equation for part C. Should you use a solid or broken line? Explain.  
**E.** Describe how the number of \$10 bills changes as the number of \$5 bills increases.  
**F.** Explain what the  $x$ -intercept and  $y$ -intercept represent on your graph.  
**G.** Which points on your graph are not possible combinations? Explain why.  
**H.** Determine all the possible combinations of \$5 bills and \$10 bills that equal \$100.