Algebra 1		ra 1	Unit 4 PRACTICE Test	Name:	Name:	
				Date: _	Block:	
An	swe	r each question as be	st you can. Show all your work for full cre	dit.		
1.	The The Fin	e perimeter of a rectang e length of the rectang d the dimensions of th <u>GOOGLE</u> : SOLVING SYS	ngle is 40 inches. gle is two inches more than three times the ne rectangle. TEMS PERIMETER WORD PROBLEMS	e width.		
	a)	Label the diagram o	n the right:			
	b)	Write the equation(s) that model(s) the situation:			
	c)	What is the length ar	nd width of the rectangle? Verify your solu	tion is correct.		
		Width:				

- 2. Ming's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 3 senior citizen tickets and 9 child tickets for a total of \$75. The school took in \$67 on the second day by selling 8 senior citizen tickets and 5 child tickets. What is the price of a senior citizen ticket and the price of a child ticket?
 <u>GOOGLE</u>: SOLVING SYSTEMS WORD PROBLEMS USING SUBSTITUTION OR ELIMINATION
 - a) Define the variables (let statements):

b) Write a system of equations to model the situation: _____

c) What is the price of each ticket? Verify your solution is correct.



a) **<u>GOOGLE</u>**: ANALYZING GRAPHS OF SYSTEMS

How much more does the blue cab cost initially compared to the yellow cab? How do you know?

b) Estimate the solution of this system of equations and explain its meaning in the context of this problem.



4. Identify which is the best method to use to solve each system of equations below, then solve showing all work and verify



You are not required to use these graphs. You may use them to solve by graphing or for checking your solutions.

5. The graph below illustrates two siblings' bank balances. <u>GOOGLE</u>: ANALYZING GRAPHS OF SYSTEMS & WRITING EQUATIONS OF LINES GIVEN TWO POINTS



a) Write the equation for the line that contains the points (5, 7) and (10, 22).(Hint: You may want to refer to your notes on Tab 2, Page 22.)

b) Find the exact solution algebraically and explain its meaning in the context of this problem.