

The Wedding LAB

Congratulations! You're getting married. Now let's see how much the wedding reception is going to cost you. Let's also find out which of the following companies offers a better deal. To make this task easy, you are satisfied with all the dishes that they serve.

LOVE IS IN THE AIR RECEPTIONS

"LOVE IS IN THE AIR RECEPTIONS" rents their lounge for 500\$ and charges 13\$ per plate. They have a maximum occupancy of 400 people.

CRAZY ABOUT YOU RECEPTIONS

"CRAZY ABOUT YOU RECEPTIONS" does not charge a rental fee for their lounge. They charge 15\$ per plate. They too have a maximum occupancy of 400 people.

THE LAB

Task#1: Determine the equation (in the form $y = mx + b$) for both companies.

Task#2: Create a table for both companies. Calculate the cost for every 50 guests (plates).

- 1) What is the dependent variable?
- 2) What is the independent variable?
- 3) Is the data continuous (solid line) or discrete (dotted or dashed)?

Task#3: Superimpose both graphs onto the provided graph paper. Label the axes appropriately. Identify the POI (point of intersection).

Task#4: Write a statement that answers the question: "Which company is offering the best deal?" Be sure to interpret the POI.

THE PRESENTATION

When you have completed the rough portion of the lab, get a poster sheet. You will include a title, identify the problem and include ALL labelled information from Tasks 1 through 4. Be sure to identify the names of your group members. They will be displayed in class.

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Task / Level	Level 1	Level 2	Level 3	Level 4
Task #1	Student accurately identifies one of the four variables: y, m, x, and b and labels them appropriately.	Student accurately identifies two of the four variables: y, m, x, and b and labels them appropriately.	Student accurately identifies three of the four variables: y, m, x, and b and labels them appropriately.	Student accurately identifies ALL variables: y, m, x, and b and labels them appropriately.
Task #2	Student struggles to make an accurate table and struggles to properly identify the dependent and/or the independent variables.	Student makes a somewhat accurate table and somewhat identifies the dependent and/or the independent variables.	Student makes a somewhat accurate table and/or properly identifies either the dependent and/or the independent variables.	Student makes an accurate table and properly identifies the dependent and independent variables.
Task #3	Student struggles to make a superimposed graph with proper labels and struggles to clearly identify the POI.	Student makes a somewhat accurate superimposed graph perhaps with proper labels and/or a clearly identified the POI.	Student makes a somewhat accurate superimposed graph with proper labels and/or clearly identifies the POI.	Student makes an accurate superimposed graph with proper labels and clearly identifies the POI.
Task #4	The student clearly identifies one of the following: that the answer depends on the number of guests (plates) and states when each company is better and identifies the meaning of the POI.	The student clearly identifies two of the following: that the answer depends on the number of guests (plates) and states when each company is better and identifies the meaning of the POI.	The student clearly identifies three of the following: that the answer depends on the number of guests (plates) and states when each company is better and identifies the meaning of the POI.	The student clearly identifies that the answer depends on the number of guests (plates) and states when each company is better and identifies the meaning of the POI.