Functions and Expressions - The “Reasonable” Vaycay

Lab Sheet

Overview/Introduction:
Plan your ideal seven-day vacation, with an unlimited budget. You will be in a group of three or less (you may be independent). You are responsible for planning cost of travel, lodging, and food.

Requirements:

- Complete write up of destination selection and reasoning, write up of two unique attractions to visit (including cost)
- Documentation of research – locate three lodging options, and selection of one; provide reasoning for selection
- Know cost of round trip
- Know totals for: travel, lodging, food, and overall total cost of vacation

Expectations:

- Destination – Two reasons for location selection, including two attractions
- Place to sleep every night
- Food everyday
- Round-trip travel cost

Time Line:
Day 1:

Task One: Get into groups 3 or less, like-minded travelers (or independently)
Task Two: Research destinations and modes of travel – Select destination
Task Three: Research two attractions to visit – document cost and reasoning for selection.

Day 2 and 3:

Task Four: Research cost of mode of travel – document cost
Task Five: Research lodging – document cost; must find three options and explain reasoning for selection of lodging option

Day 4:

Task Six: Research food options – select a breakfast, lunch and dinner location for one day. Document costs for each meal, and multiply by seven for the week.

Day 5:

Task Seven: Graph data and costs
Task Eight: Find your fixed and variable costs.
Task Nine: Create your function using the fixed and variable costs.

Day 6:

Task Ten: Peer Evaluations- Make modifications if needed
Task 11: Use your function to determine the cost of a 21-day trip.

Day 7/8/9:

Task 12: Present and compare your data and graph with another group – Where is the breakeven point (when do you spend the same amount of money?)
Task 13: Present your groups trip, with the group you compared your data with, to the class – explain your reasoning and break-even.
See requirements for presentation; include your graph and linear equation in your presentation