

Name:	
Period	

Rent A Party Facility Answer Sheet

- 1) Explanation of Facility A's cost. (2 pts)

- 2) Explanation of Facility B's cost. (3 pts)

- 3) Equation for Facility C (4 pts)

- 4) Table (see next page) (12 pts)

- 5) Table explanation (10 pts)
 - a. Explanation of how the numbers were derived

 - b. Comparison of the costs of different stores and how the comparison was determined.

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Time	Facility A	Facility B	Facility C
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

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6) Graph of the relationship of each facility's cost to the hours of rental. All on the same graph color coded. (12 pts)

7) Use the graph to find the following information:

a. What do the y-intercepts tell us about each facility? (3 pts)

b. Where do Facility A & B have the same cost? Give answer in hours and label this spot on graph. (2 pts)

c. Where do Facility A & C have the same cost? Give answer in hours and label this spot on graph. (2 pts)

d. Where do Facility B & C have the same cost? Give answer in hours and label this spot on graph. (2 pts)

e. What is the slope of each equation? Use the graph. On the graph label the points used to calculate the slope? Below show the calculations as a ratio. (10 pts)

f. What does each slope represent in these equations? (2 pts)

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- g. Give two more pieces of information you can find about the relationship of the facilities from your graph. (4 pts)
- 8) Algebraically find (show work below):
- At which number of hours do Facility A & B have the same cost? (4 pts)
 - At which number of hours do Facility A & C have the same cost? (4 pts)
 - At which number of hours do Facility B & C have the same cost? (4 pts)
- 9) What is the:
- Domain in (4 pts)
 - This function
 - In real life situation

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- b. Range in *(4 pts)*
 - i. This function

 - ii. In real life situation

- 10) Write a summary using the tabular (table), graphic, and algebraic methods to support your comments. This summary should give advice as to which company the school should choose under what conditions. *(10 pts)*