SEMINAR 3 Application Activity

Select three cell phone plans from any of the major carriers (ex: AT&T, Verizon, Sprint, Cricket, etc.). **You must choose plans that do not have unlimited values for talk, text, etc.** Using that information, create a word document to answer the following questions:

1. Create a chart that has the following information for each of the three selected carriers: cost per month, base number of minutes, additional cost per minute (overage) (3 points)

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Points Possible** | **Points Earned** | **Comments** |
| Carrier 1:  Cost per month  Base number of minutes  Additional cost per minute | 1 |  |  |
| Carrier 2:  Cost per month  Base number of minutes  Additional cost per minute | 1 |  |  |
| Carrier 3:  Cost per month  Base number of minutes  Additional cost per minute | 1 |  |  |
| Total | 3 |  |  |

1. Using the information from the chart you created, write the total monthly cost, *C*, in terms of *m* minutes for each of the three carriers (3 points)

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Points Possible** | **Points Earned** | **Comments** |
| Carrier 1 equation | 1 |  |  |
| Carrier 2 equation | 1 |  |  |
| Carrier 3 equation | 1 |  |  |
| Total | 3 |  |  |

1. Select **two** of the three identified plans and calculate how many minutes it will take for the cost of the **two** plans to be the same. Show all work. (4 points)

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Points Possible** | **Points Earned** | **Comments** |
| Calculated minutes when plans are the same | 1 |  |  |
| Included all work | 3 |  |  |
| Total | 4 |  |  |

1. Now compare all three plans and determine if one plan is a better deal than the other two. Support your answer mathematically. (5 points)

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Points Possible** | **Points Earned** | **Comments** |
| Conclusion | 1 |  |  |
| Included all work to support conclusion | 3 |  |  |
| Grammatically correct | 1 |  |  |
| Total | 5 |  |  |

1. Which plan would you choose and why? Support your answer mathematically (5 points)

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Points Possible** | **Points Earned** | **Comments** |
| Conclusion | 1 |  |  |
| Included all work to support conclusion | 3 |  |  |
| Grammatically correct | 1 |  |  |
| Total | 5 |  |  |