**Senior Math HW - Choosing a Cell Phone Plan Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hr\_\_\_\_\_**

***Scenario:*** Sarah and John’s parents are looking to sign up for a new cell phone plan. They have a family of four and desire a plan that has good coverage so that when Sarah and John go to college their phones will hopefully get good coverage. They narrow down their choices to InstaConnect, Anywhere Wireless, and Mobile Services. The tables below have been started with some given research they have found so far. Analyze the given information and complete the rest of the tables and indicate which plan is best suited for their parents.

**Information Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Plan | Monthly Service Charge | Minutes Per Month | Minimum Contract Length | Free Unlimited Texting | Quality of Service |
| InstaConnect | $80 | 1000 | 6 months | no | very good |
| Anywhere Wireless | $70 | 900 | 2 years | yes | good |
| Mobile Services | $65 | 600 | 1 year | no | excellent |

**Common Unit Table – Set the common unit values from the information in the table above.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Plan | Monthly Service Charge | Minutes Per Month | Minimum Contract Length | Free Unlimited Texting | Quality of Service |
| InstaConnect |  |  |  |  |  |
| Anywhere Wireless |  |  |  |  |  |
| Mobile Services |  |  |  |  |  |

 **Below are the rankings and point values that Sarah and John’s parents chose for the five categories listed above. Calculate the weights for each category and record the total points and weights.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Measure | Monthly Service Charge | Minutes Per Month | Minimum Contract Length | Free Unlimited Texting | Quality of Service | Total |
| Rank | 1 | 2 | 5 | 4 | 3 |  |
| Points | 100 | 90 | 20 | 50 | 70 |  |
| Weight |  |  |  |  |  |  |

**Find the weighted total score for each plan. On the back page explain which best fits their needs.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Plan | Monthly Service Charge | Minutes Per Month | Minimum Contract Length | Free Unlimited Texting | Quality of Service | Total |
| InstaConnect |  |  |  |  |  |  |
| Anywhere Wireless |  |  |  |  |  |  |
| Mobile Services |  |  |  |  |  |  |

Which plan is best suited to the needs of the family? Why?

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