Int 1 Scatterplot Practice #2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

50 Volunteers were part of a study to see if the number of calories in a particular food could help predict the amount of satisfaction a person experienced eating that food. They were trained on using a “Satisfaction Level” from 1 to 100 and then were asked to give their “Satisfaction Level” for a number of different foods. The average satisfaction level was found for each food and rounded to the nearest whole number. The data is shown below.

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| |  |  | | --- | --- | | # of calories (per serving) | Satisfaction level | | 27 | 6 | | 70 | 10 | | 60 | 13 | | 165 | 34 | | 215 | 68 | | 220 | 62 | | 240 | 85 | | 124 | 20 | | 202 | 54 | | 106 | 16 | | 162 | 40 | | 122 | 35 | | 88 | 23 | | 35 | 15 | | 25 | 13 | | 207 | 47 | | 66 | 21 | | 148 | 44 | | 112 | 92 | | 281 | 55 | | 184 | 67 | | 1. Sketch a graph of the data below | |
| 1. Describe the graph. | 1. Find the LSRL through the data |
| 1. Use your LSRL to predict the satisfaction level for a food that has 250 calories. | |
| 1. Use your LSRL to predict the satisfaction level for a food that has 500 calories. | |

Does it matter what the foods are?? Your teacher will give you two sets of data.

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| 1. Verify this is the same data you already graphs…just separated. | |
| 1. Sketch the Candy data below. 2. Describe the Candy data. 3. Use your graph to predict the satisfaction level for a candy that has 250 calories. | 1. Sketch the Vegetable data below. 2. Describe the Vegetable data. 3. Use your graph to predict the satisfaction level for a vegetable that has 250 calories. |
| 1. Compare your predictions for a candy and vegetable that has 250 calories to your prediction made from the LSRL through the combined data. | |

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| |  |  |  | | --- | --- | --- | | Candy | # of calories | Satisfaction level | | Jolly Rancher | 27 | 6 | | Carob Chips | 70 | 10 | | Airhead | 60 | 13 | | Peppermint Patty | 165 | 34 | | Snickers | 215 | 68 | | Reece’s Cup | 220 | 62 | | Payday | 240 | 85 | | Twix | 124 | 20 | | Mars | 202 | 54 | | Jelly Beans | 106 | 16 | | |  |  |  | | --- | --- | --- | | Vegetable | # of calories | Satisfaction level | | Potato | 162 | 40 | | Parsnip | 122 | 35 | | Squash | 88 | 23 | | Beetroot | 35 | 15 | | Carrots | 25 | 13 | | Broccoli | 207 | 47 | | Cucumbers | 66 | 21 | | Creamed Spinach | 148 | 44 | | Sweet Potato | 112 | 92 | | Corn | 281 | 55 | | Wasabi | 184 | 67 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | Candy | # of calories | Satisfaction level | | Jolly Rancher | 27 | 6 | | Carob Chips | 70 | 10 | | Airhead | 60 | 13 | | Peppermint Patty | 165 | 34 | | Snickers | 215 | 68 | | Reece’s Cup | 220 | 62 | | Payday | 240 | 85 | | Twix | 124 | 20 | | Mars | 202 | 54 | | Jelly Beans | 106 | 16 | | |  |  |  | | --- | --- | --- | | Vegetable | # of calories | Satisfaction level | | Potato | 162 | 40 | | Parsnip | 122 | 35 | | Squash | 88 | 23 | | Beetroot | 35 | 15 | | Carrots | 25 | 13 | | Broccoli | 207 | 47 | | Cucumbers | 66 | 21 | | Creamed Spinach | 148 | 44 | | Sweet Potato | 112 | 92 | | Corn | 281 | 55 | | Wasabi | 184 | 67 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | Candy | # of calories | Satisfaction level | | Jolly Rancher | 27 | 6 | | Carob Chips | 70 | 10 | | Airhead | 60 | 13 | | Peppermint Patty | 165 | 34 | | Snickers | 215 | 68 | | Reece’s Cup | 220 | 62 | | Payday | 240 | 85 | | Twix | 124 | 20 | | Mars | 202 | 54 | | Jelly Beans | 106 | 16 | | |  |  |  | | --- | --- | --- | | Vegetable | # of calories | Satisfaction level | | Potato | 162 | 40 | | Parsnip | 122 | 35 | | Squash | 88 | 23 | | Beetroot | 35 | 15 | | Carrots | 25 | 13 | | Broccoli | 207 | 47 | | Cucumbers | 66 | 21 | | Creamed Spinach | 148 | 44 | | Sweet Potato | 112 | 92 | | Corn | 281 | 55 | | Wasabi | 184 | 67 | |