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.
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| 1. Use your LSRL to predict the satisfaction level for a food that has 500 calories.
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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.
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| 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.
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| 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 |

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| 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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