Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Statistical Reasoning
Statistical Problem-Solving Process Practice

1. What are the 4 steps to the Statistical Problem-Solving Process?

2. Many people eat fast food as a regular part of their diet. Is fast food unhealthy? The best answer may be “It depends on what you eat.” Here are some nutritional data about four popular fast food burgers:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Burger** | **Restaurant** | **Calories** | **Fat** | **Cholesterol** | **Sodium** |
| Quarter Pounder with cheese | McDonald’s | 430 | 30 | 95 | 1310 |
| Classic Single with everything | Wendy’s | 410 | 19 | 70 | 890 |
| Whopper with cheese | Burger King | 706 | 43 | 113 | 1164 |
| Cheeseburger | In-N-Out | 480 | 27 | 60 | 1000 |

a) Ask a question of interest. What would be a good question of interest that we could answer based on the data given in the table above?

b) Produce data. How do you think the above data was produced?

c) Analyze the data. What are some key things that stick out to you about the data in the table?

d) Interpret results. Which burger do you think is the “healthiest”?

e) What are the individuals in this survey?

f) What are the categorical variables?

g) What are the quantitative variables?