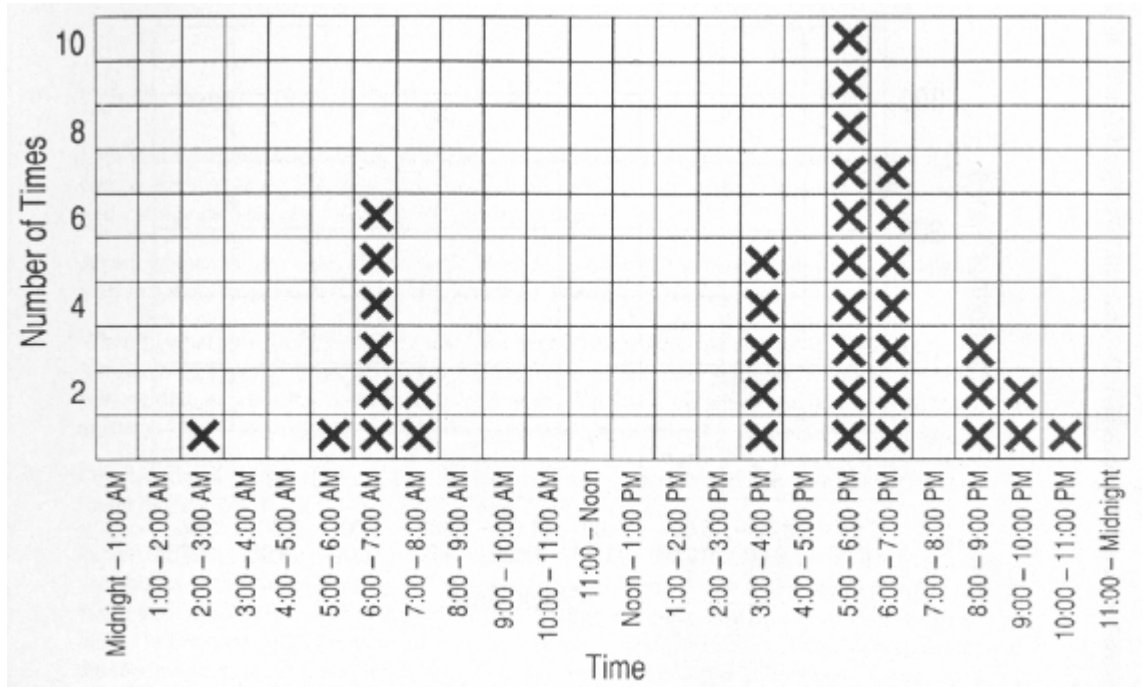


Collecting Data Over Time

NAME _____

Use the graph and information below to answer the following questions.

During a twenty-four-hour period, I recorded the number of times that our refrigerator was opened each hour. The results appear below. You will notice that the refrigerator was not opened during the day when no one was home. It was opened when we got in from school and wanted a snack. It was particularly busy around the supper hour, and it was even opened once during the night when Jerry woke up thirsty.



1. What do you think a graph of the activity of your refrigerator door would look like? Use your own graph paper to draw it.

2. Post a tally sheet on your refrigerator door at home and ask the members of your family to record when they open the door during a twenty-four-hour period. (You can use a magnetic clip to hold the tally sheet and hang a pencil on a string beside it for their convenience.)

| Morning | | | | | | | | | | | |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|--------------|
| Midnight – 1:00 | 1:00 – 2:00 | 2:00 – 3:00 | 3:00 – 4:00 | 4:00 – 5:00 | 5:00 – 6:00 | 6:00 – 7:00 | 7:00 – 8:00 | 8:00 – 9:00 | 9:00 – 10:00 | 10:00 – 11:00 | 11:00 – Noon |
| | | | | | | | | | | | |

| Afternoon | | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|------------------|
| Noon – 1:00 | 1:00 – 2:00 | 2:00 – 3:00 | 3:00 – 4:00 | 4:00 – 5:00 | 5:00 – 6:00 | 6:00 – 7:00 | 7:00 – 8:00 | 8:00 – 9:00 | 9:00 – 10:00 | 10:00 – 11:00 | 11:00 – Midnight |
| | | | | | | | | | | | |

3. Plot the results on graph paper, and compare the results to the graph of your prediction. Write a paragraph about your findings.