Lab: What Days are the Busiest in the Maternity Ward?

Objectives: • to create a bar graph, use a perpetual calendar & stem and leaf & data analysis table

Problem 1: What day of the week were most students were born on?

Hypothesis 1: If we collect the days and dates of the week that students were born on, then the data will show that ________________is the day of the week most students were born on. +3

Problem 2: What numerical date/day were most students were born on?

Hypothesis 2: If we collect the days and dates of the week that students were born on, then the data will show that ________________is the numerical date/day most students were born on. +3

Materials:
• Perpetual Calendar • Lab notebook • Pencil • Ruler • Calculator

PreLab Questions:
1. What day of the week (Sun - Sat) were you born on? __________ +1
2. What numerical day were you born on? (1 - 31) __________ +1

Data:
Table 1: Days of the week .+5

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Total

Figure 1: Stem and Leaf of Numerical Days for our class: Period ________ .+5

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30
**Graph:** Make a graph for Table 1 totals. Ask yourself whether it is two sets of numerical data that are measurements (line graph) or if it has categories (bar graph). +10

**Analysis:** Use complete sentences unless the question can be answered using by listing or with a few words. To explain you must use complete sentences.

1. What day of the week was the busiest (use totals)? __________________________. +1
2. What day of the week was the slowest (use totals)? __________________________. +1
3. Are weekends the busiest time of the week? Explain using numerical data. +2

4. What numerical day(s) had the most birthdays in our class? +1

5. Use Table 1 to compare your class to the other four classes. Note 3 differences. +3

6. Why is sample size important when collecting data? +2

7. Conclusion 1: I __________________my hypothesis because the data shows that _______ people were born on ____________________________and I predicted ____________________________. +3

8. Conclusion 2: I __________________my hypothesis because the data shows that _______ people were born on ____________________________. +3