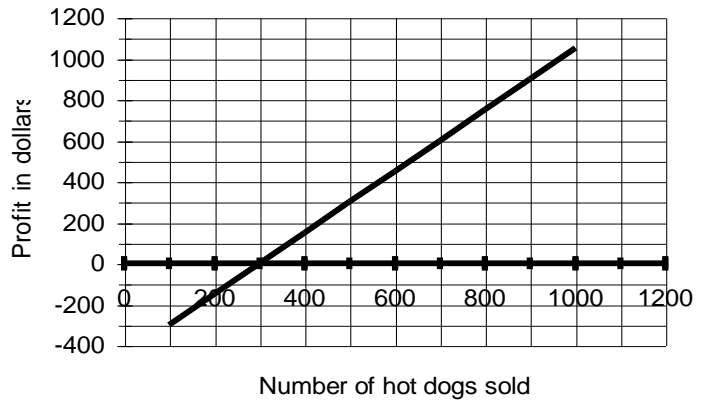


Math Problem 1: Rates of Change:

- (a) What is the constant rate of change represented in the graph? Interpret your answer in context. Write the equation of the line represented.



- (b) As a warm front approaches, the temperature T increases by the formula $T(n) = 0.12n^2 + 45n + 300$, where $T(n)$ is measured in degrees Fahrenheit and n is the number of hours since noon. Find the rate of change of the temperature with respect to time since noon as n increases from 1 to 3. Interpret.

Math Problem 2: Number Sequences

Samuel earned \$1 one week redeeming aluminum cans. The next week he earned \$2.50.

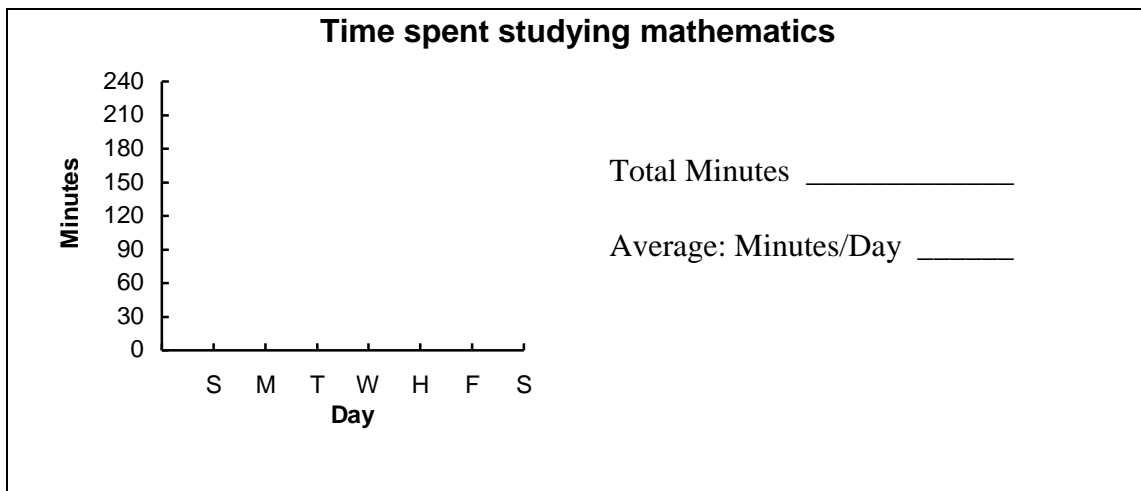
- (a) If the sequence of his weekly earnings is arithmetic, how much will Samuel earn each of the next 3 weeks? Explain how to compute his weekly earnings recursively.
- (b) If the sequence of Samuel's weekly earning is geometric, how much will he earn each of the next 3 weeks? Explain how to compute his weekly earnings recursively.

Journal Topic:

(a) Name as many people as you can from class.

(b) How many of these people do you have either a phone number or email address that you could contact for information about the class is you needed to?

(c) What did you think of the 1st take home exam? How do you think you did on it? How much time did it take you to complete?



Comments/Observations on the Course and your Progress (optional):