

Name: _____

Date: _____

Problem-Based Task: To the Rescue!

Coaching

- a. How should the table and window settings of your graphing calculator be set for this situation?
- b. What does the domain $[1, 6]$ indicate about the time needed for rescue attempts?
- c. Why is 0 not included in the domain?
- d. What does the range $[1, 12]$ mean?
- e. Why is the range limited to whole numbers?
- f. Why does the graphing calculator table show decimal numbers for the range?
- g. Determine the value of any intercept(s) of the graph.
- h. Use your graphing calculator's table of values to determine the values of $N(t)$ for $t = 7$ and $t = 8$.
- i. How would you describe or interpret the value of $N(t)$ at $t = 7$ hours and $t = 8$ hours?