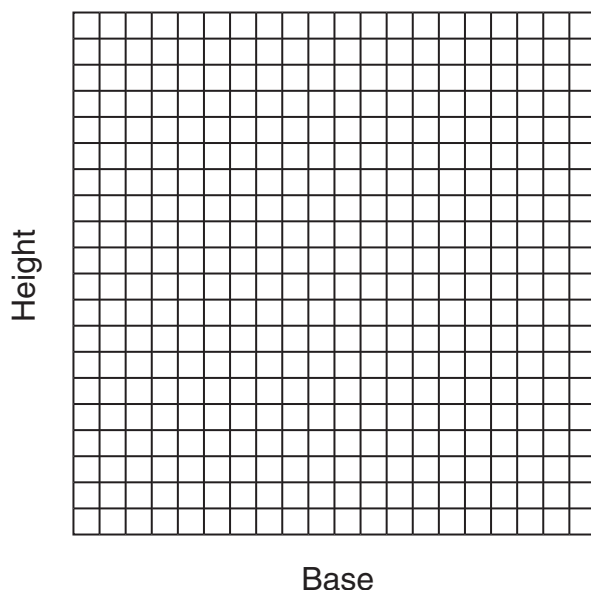


Pipe Cleaners

Activity 2

1. Graph your data from Activity 1, number 1 on the grid below.



- a. Be sure you have labeled your graph including title, axes, and scale.
- b. What does the ordered pair (x, y) mean in this problem?
- c. Use your graph to determine the height for a base of 2 cm.
- d. Use your graph to determine the base for a height of 4.5 cm.
- e. Using your graph, make a conjecture about the symbolic rule that describes the relationship between the base and height of the rectangles you created with pipe cleaners.
- f. Use the table and graph feature of your calculator to test the rule you conjectured.



Pipe Cleaners

Activity 2 (continued)

2. Use your rule and the table feature of your calculator to answer these questions:
 - a. For a base of length 1.5 cm, what would be the height?
 - b. For a height of length 7 cm, what would be the base?
3. Use the data in Activity 1, number 2 to build a scatterplot on your graphing calculator. Then show that your rule in Activity 1, number 2e fits the data by graphing both the scatterplot and the rule.

