

## Pipe Cleaners

### Activity 1

1. Measure the length of each side of your rectangle to the nearest half-centimeter. Fill in the table with all the data from your group's rectangles.

Base	Height

- a. What is the length of the pipe cleaner?
- b. What does the length of the pipe cleaner represent in terms of a measure of a rectangle?
- c. For each base and height, find the sum. What do you notice?
- d. Write a sentence and a rule to describe how the lengths of the base and height compare to the length of your pipe cleaner.
- e. For a base equal to 2 cm and a pipe cleaner of length 30 cm, how could you determine the height?
- f. If the height is 4.5 cm and the pipe cleaner is 30 cm long, what is the base? How do you know?



## Pipe Cleaners

### Activity 1 (continued)

2. The data in the table below is from a different pipe cleaner, perhaps of a different length. Complete the “Height” column.

Base	Process	Height
3		7
8		2
6		4
1		
5		
B		

- Explain how you found the missing heights.
- Can you tell what the length of the pipe cleaner is? If so, how?
- Use the length from number 2b to develop the process column, showing how to find the height if you know the base.



