Square Trains

This is a group task. Use your **roles** to help your group accomplish this task.

Shown here are "square trains." They grow in a pattern. Each square train has a perimeter.

Square Trains







Figure 1

Figure 2

Figure 3

With your group, answer the following questions.

1. Create figure 4 with your square tiles. Draw it here and label it Figure 4.

2. Find the perimeter for Figure 4

3. Find the perimeter of a train with 80 squares.



Check point! *Please call an instructor over for a group quiz. Everyone should be able to explain your answer to #3 and how you figured it out.* Score:

4. Explain in words how you can find the perimeter for any sized square train.

5. Try to write an expression for the perimeter using mathematical symbols.



Check point! *Please call an instructor over for a group quiz. Everyone should be able to explain your answers to #4 and #5 and why it makes sense.* Score:

Extension problems:

a. Suppose you had a square train with a perimeter of 394. How many squares make up this train? What's the Figure number?

b. Suppose you had a square train with a perimeter of 253. How many squares make up this train? What's the Figure number?