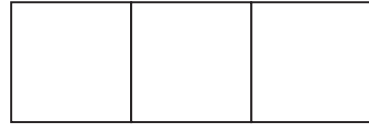
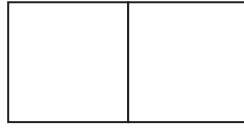
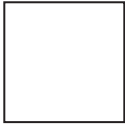


Pattern Block Algebra: Squares

1. Make a “train” of square pattern blocks as shown below. For each “train,” determine the perimeter and fill in the table.



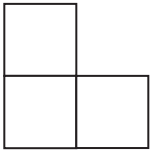
Number of Squares	Perimeter
1	4
2	6
3	8
4	—
5	—
.	
.	
10	—
100	—

2. What is the perimeter of a 10-square train? _____

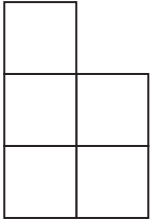
3. What is the perimeter of a 100-square train? _____

4. Write a rule (in words or symbols) to determine the perimeter of any square train.

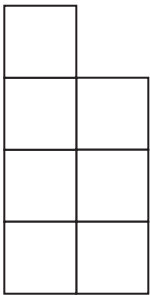
Square Tiles: Chairs



A chair 2 square tiles tall takes 3 square tiles to build.



A chair 3 square tiles tall takes 5 square tiles to build.



A chair 4 square tiles tall takes 7 square tiles to build.

1. Make and then draw a chair 5 squares tiles tall.

3. Describe (using words or symbols) how you found the number of square tiles used to build a chair 100 tiles tall.

2. Complete the table below.

Height of Chair	Square Tiles
2	3
3	5
4	7
5	—
6	—
.	
.	
10	—
100	—