

Drawing the Graph of a Pattern

Quick Review

At Home

Here are some ways to represent a pattern.

➤ Model the pattern on grid paper.

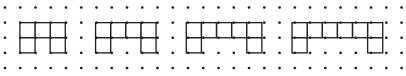
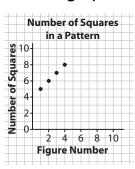


Figure 1 Figure 2 Figure 3 Figure 4

➤ Make a table.

Figure Number	Number of Squares	Ordered Pair
1	5	(1, 5)
2	6	(2, 6)
3	7	(3, 7)
4	8	(4, 8)

> Draw a graph.



Try These

1. Henry made this pattern.

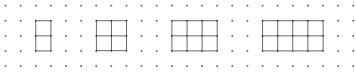
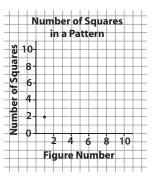


Figure 1 Figure 2 Figure 3 Figure 4

a) Complete the table.

Figure Number	Number of Squares	Ordered Pair
1	2	(1, 2)

b) Graph the pattern



Practice

1.	a)	Describe the relationship shown
		in the table.

Figure Number	1	2	3	4	5
Number of Squares	1	3	5	7	9

b) Draw squares on the grid to model the pattern.

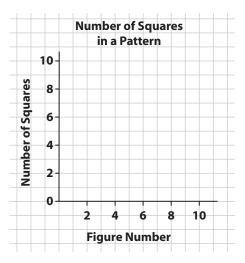


- **c)** Graph the pattern.
- **d)** How many squares are needed for Figure 10?

e) Which figure has 29 squares?



f) Which figure has 51 squares?



2. Draw a pattern to model the data in the table.

Figure Number	1	2	3	4
Number of Triangles	1	2	4	8

Stretch Your Thinking

Use the table in question 2.

How many triangles are in Figure 10? _____

Which figure has 8192 triangles? _____