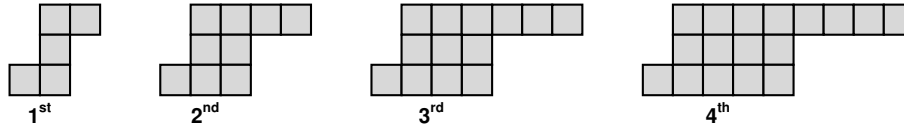


More with Tile Patterns

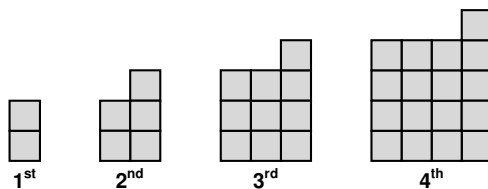
1. Square tiles were used to make the pattern below.



- a. Complete a table to show the number of tiles in each of the first ten figures.
- b. Describe the pattern in words.
- c. Is the pattern linear or non-linear? Explain.
- d. Write an equation for the number of tiles t in the n th figure.
- e. How many tiles are in the 15th figure? Show or explain how you know.
- f. Identify the figure in the pattern that can be made with exactly 93 tiles. Clearly show or explain how you know.

Figure #	Tiles
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

2. Square tiles were used to make the pattern below.



- a. Complete a table to show the number of tiles in each of the first ten figures.
- b. Describe the pattern in words.
- c. Is the pattern linear or non-linear? Explain.
- Bonus:** Write an equation for the number of tiles t in the n th figure.
- d. How many tiles are in the 15th figure? Clearly show or explain how you know.

Figure #	Tiles
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

3. Black and white tiles were used to make the pattern below.

Figure #	Black Tiles	White Tiles
0		
1		
2		
3		
4		
5		

- Complete a table to show the number of tiles in each of the first five figures.
- Write an equation for the number of black tiles t needed to make the n th figure.
- Write an equation for the number of white tiles t needed to make the n th figure.

4. Square tiles were used to make the pattern below.

- Complete a table to show the number of tiles in each of the first six figures.
- Describe the pattern in words.

Bonus: Write an equation for the number of tiles t in the n th figure.

- How many tiles are in the 15th figure? Show or explain how you know.

Figure #	Tiles
0	
1	
2	
3	
4	
5	
6	

5. Square tiles were used to make the pattern below.

- Complete a table to show the number of tiles in each of the first six figures.
- Describe the pattern in words.

Bonus: Write an equation for the number of tiles t in the n th figure.

- How many tiles are in the 15th figure? Show or explain how you know.

Figure #	Tiles
0	
1	
2	
3	
4	
5	
6	