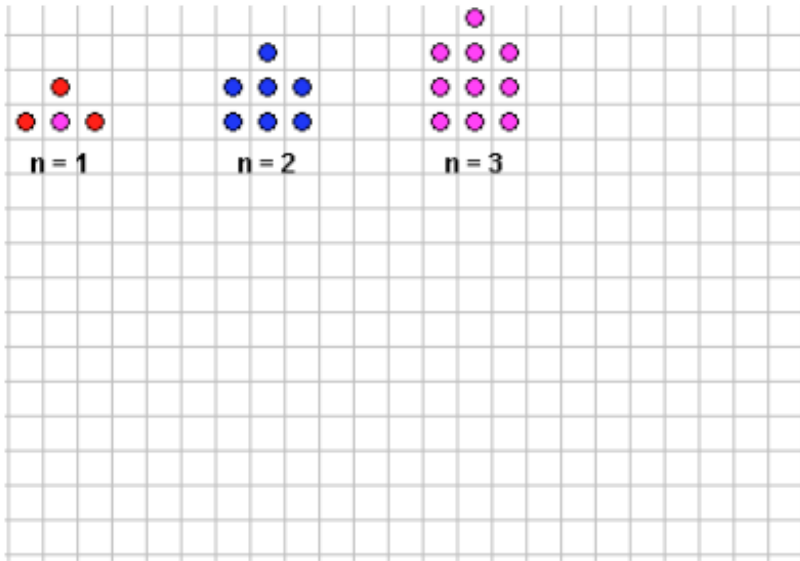


12.1 Geometric Representations (F.BF.1A)

Example 1:

a) Observe the *tower numbers pattern* below as a class.



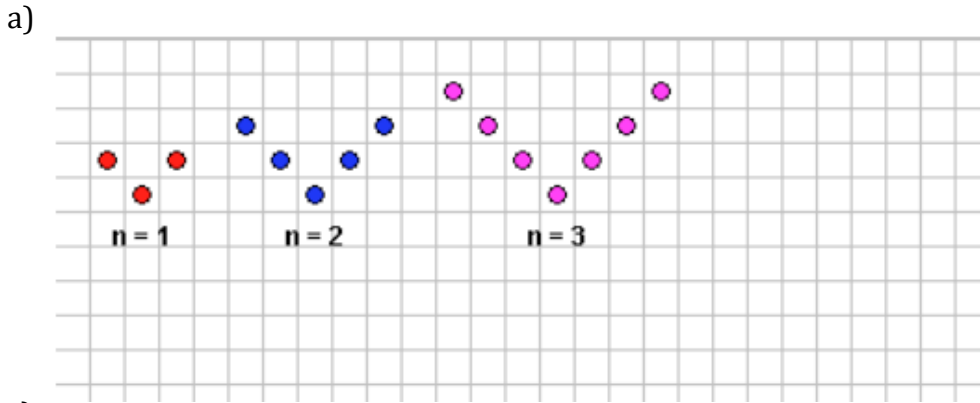
b) Express the pattern in a table. Find the number of dots for $n = 4, 5$. Discuss how to find the 50th figure.

# position (input)	# of dots (output)
1	
2	
3	
4	
5	
50	

c) Using the previous question, come up with a function rule.

Function Rule:

Example 2:



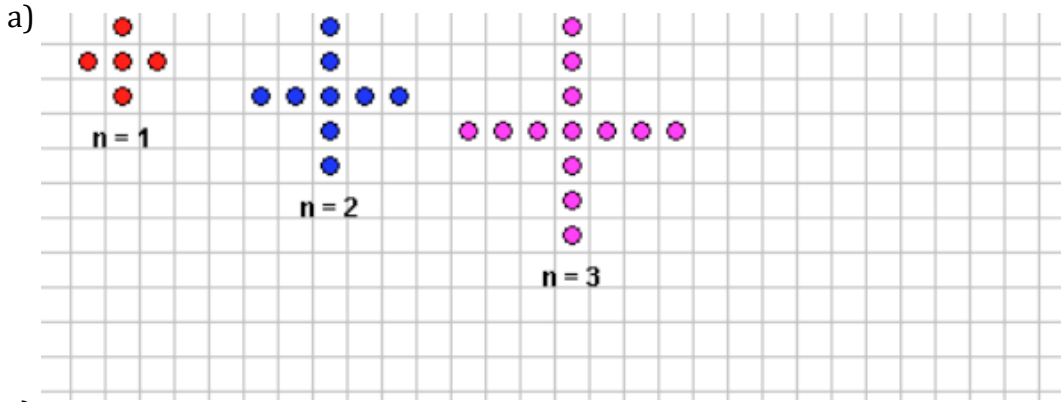
b)

# position (input)	# of dots (output)
1	
2	
3	
4	
5	
20	

c)

Function Rule:

Example 3:



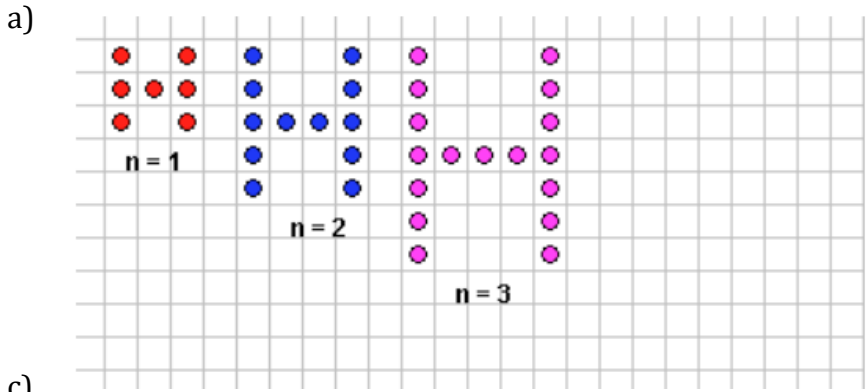
b)

# position (input)	# of dots (output)
1	
2	
3	
4	
5	
20	

c)

Function Rule:

Example 4:



b)

# position (input)	# of dots (output)
1	
2	
3	
4	
5	
20	

c)

Function Rule: