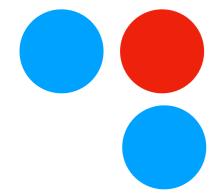
For these visual patterns, there are three questions. You can answer them with equations.

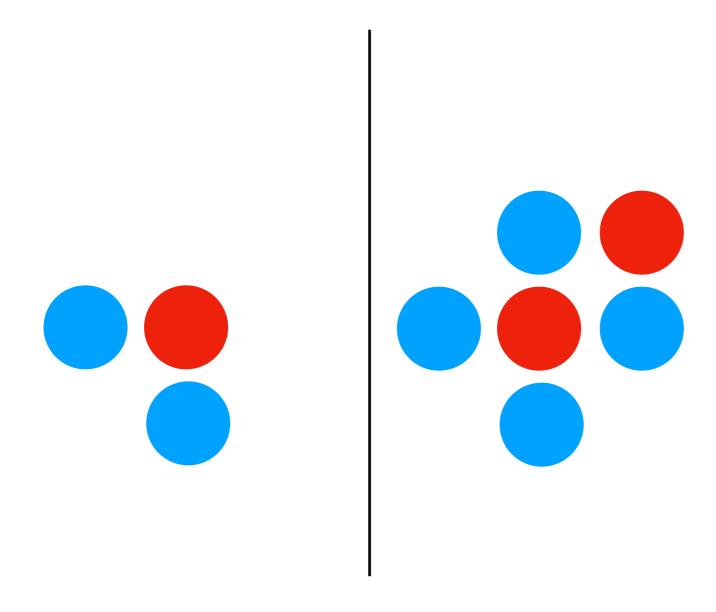
- 1) How many red in the *n*th state?
- 2) How many blue in the *n*th state?
- 3) How many total in the *n*th state?

Hint. Sometimes answering these questions in different orders first will be easiest.

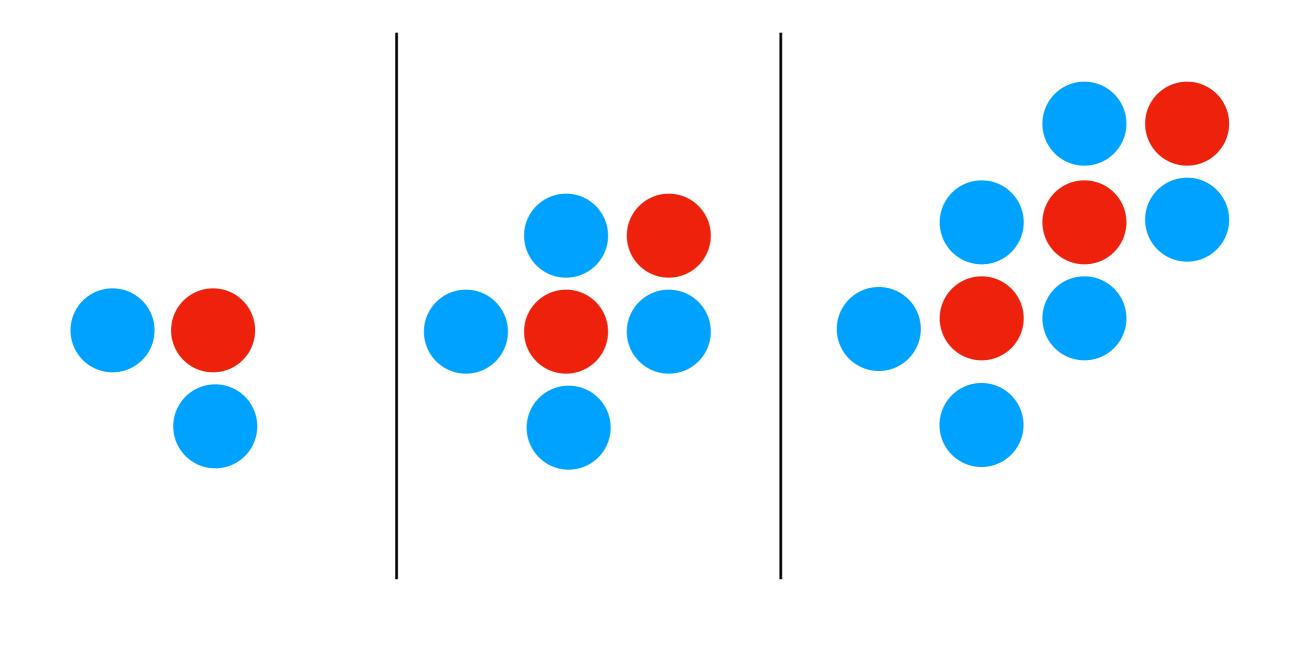
For more like these (in one color), see visualpatterns.org.

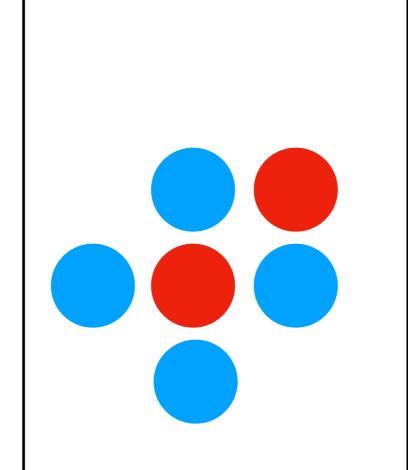


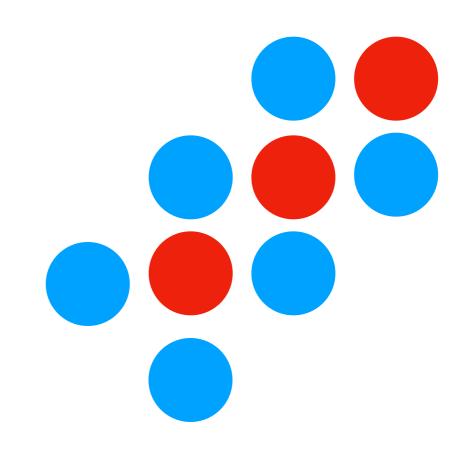
1



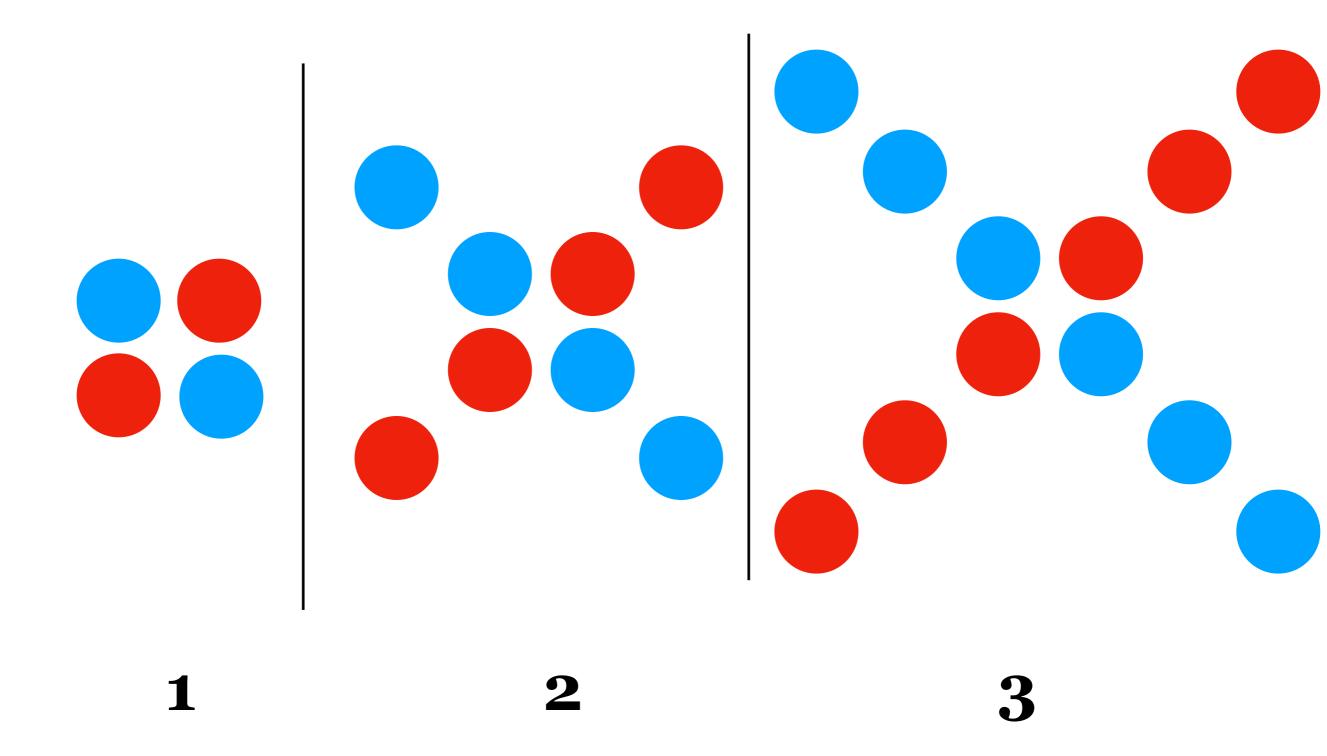
1 2

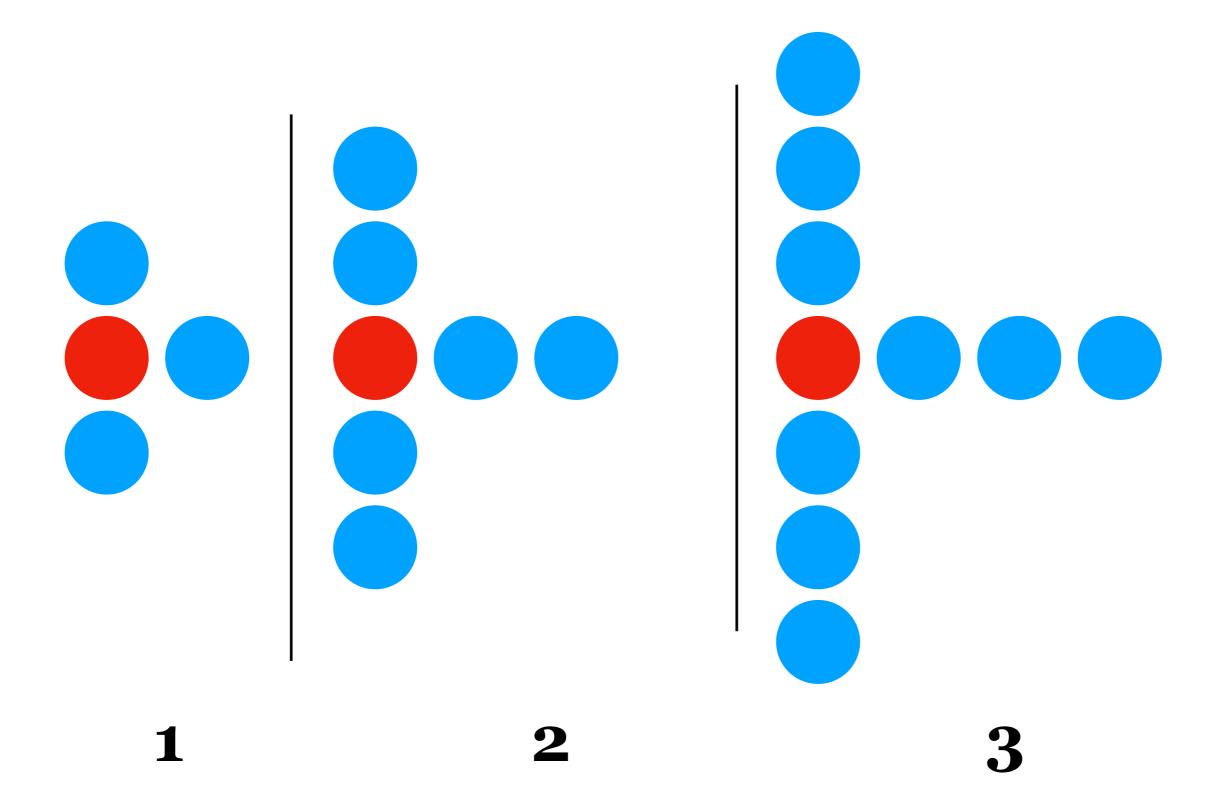


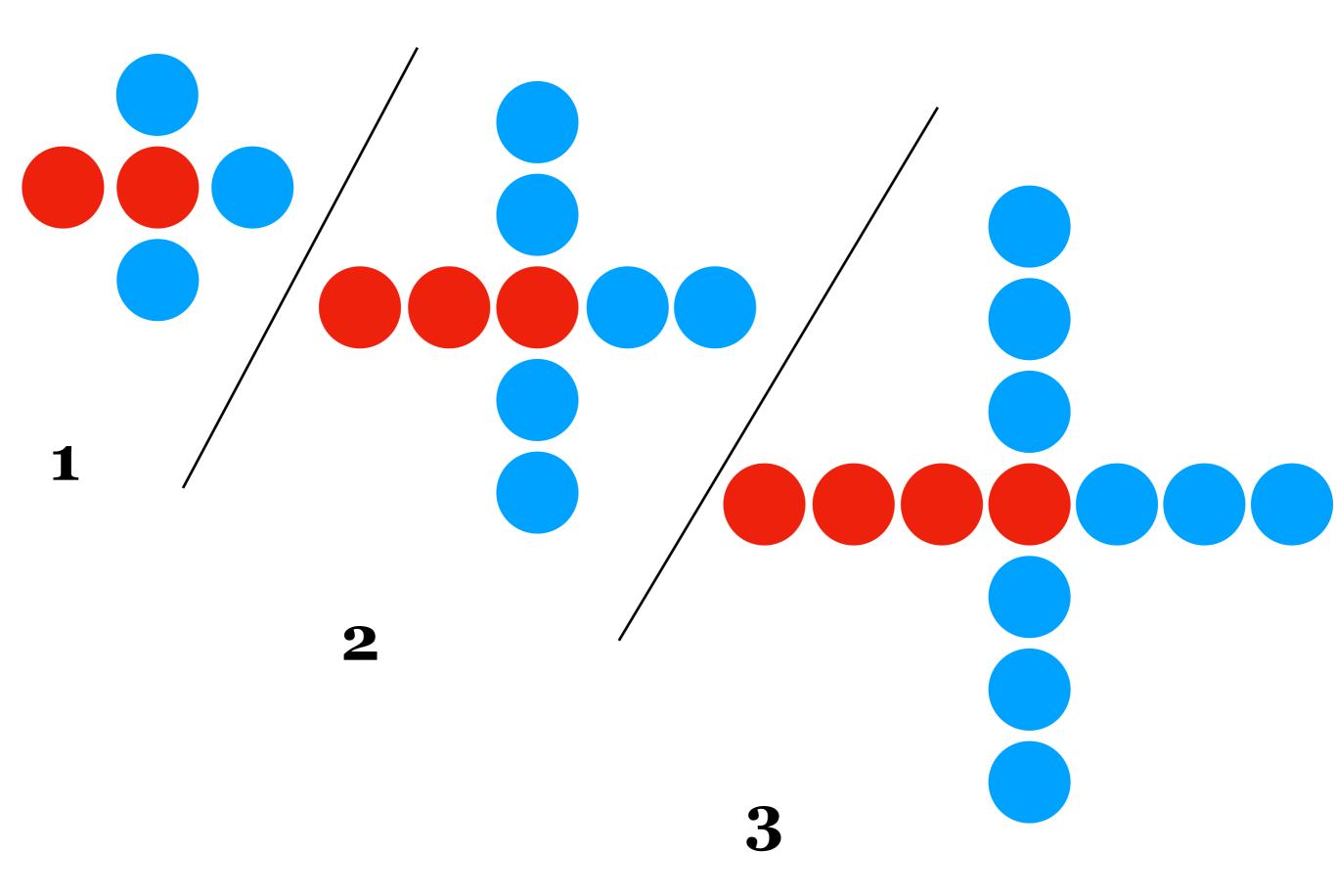


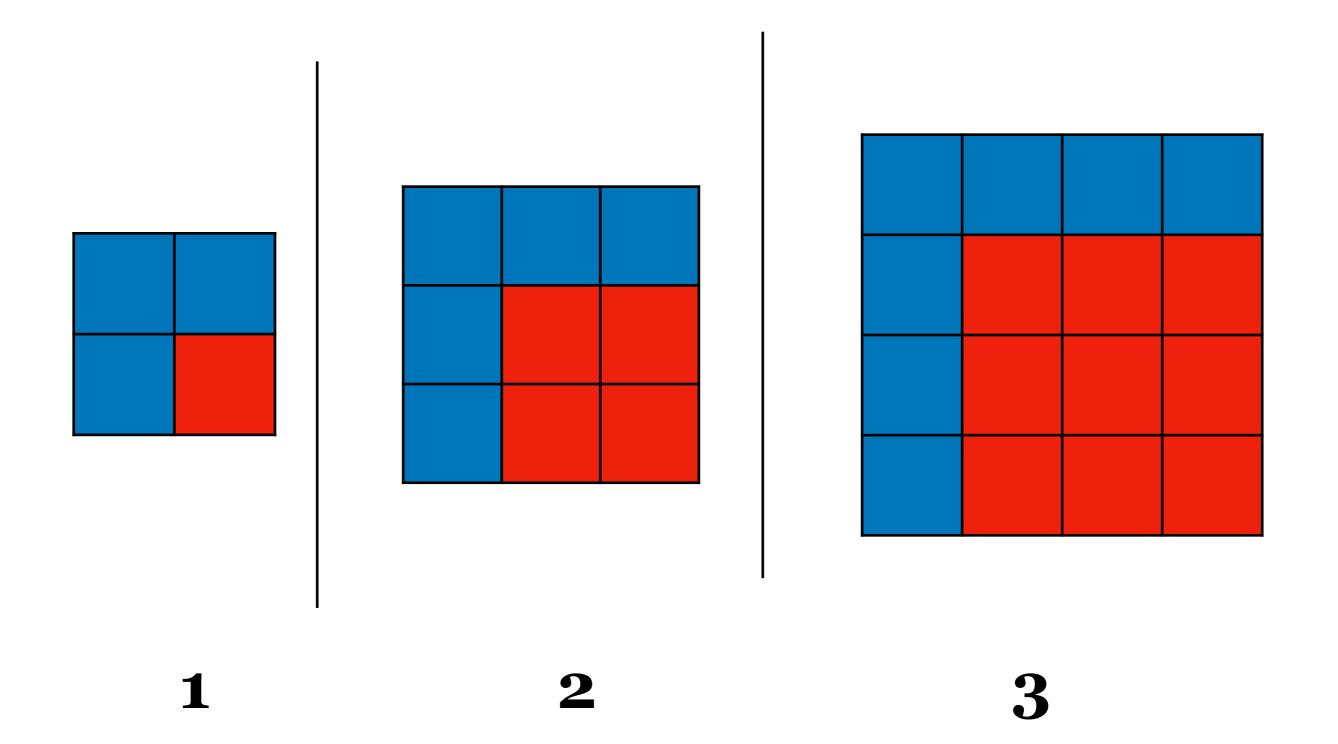


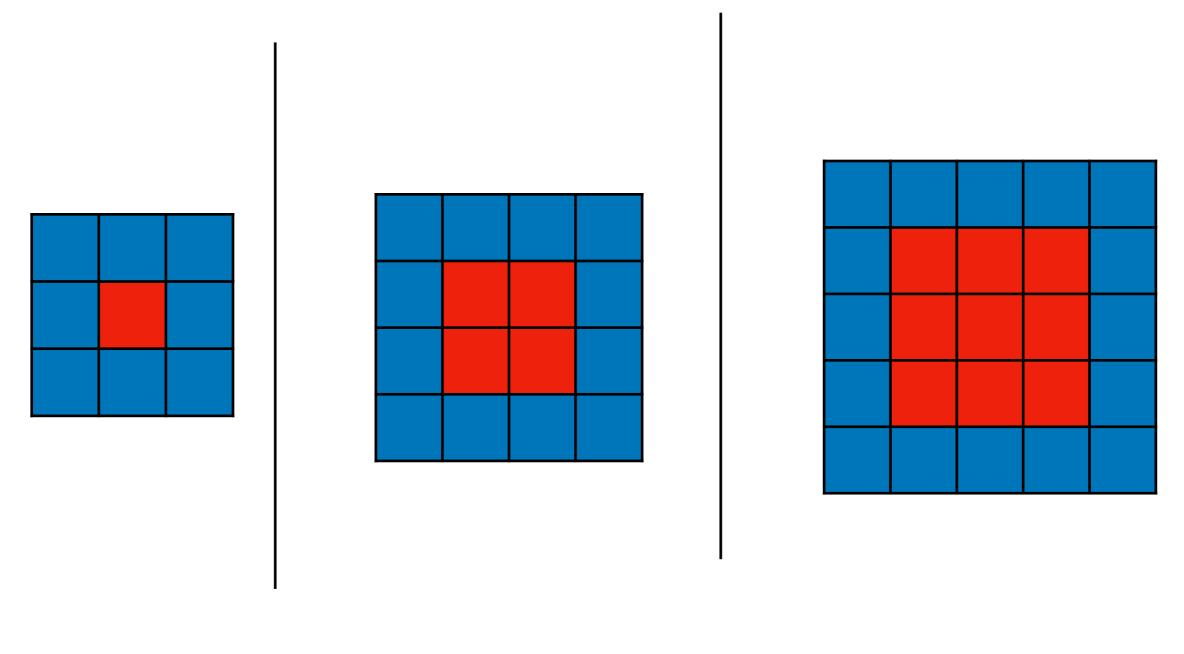
Stage	Red	Blue	Total
1	1	2	3
2	2	4	6
3	3	6	9
\mathbf{n}	n	2 n	3n °



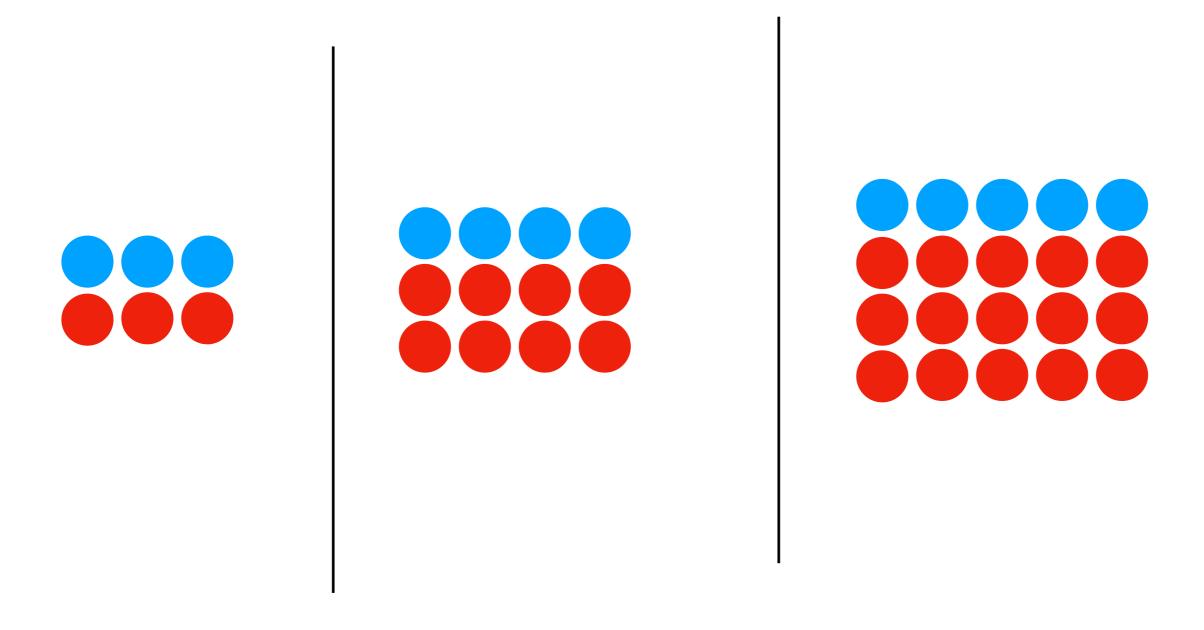


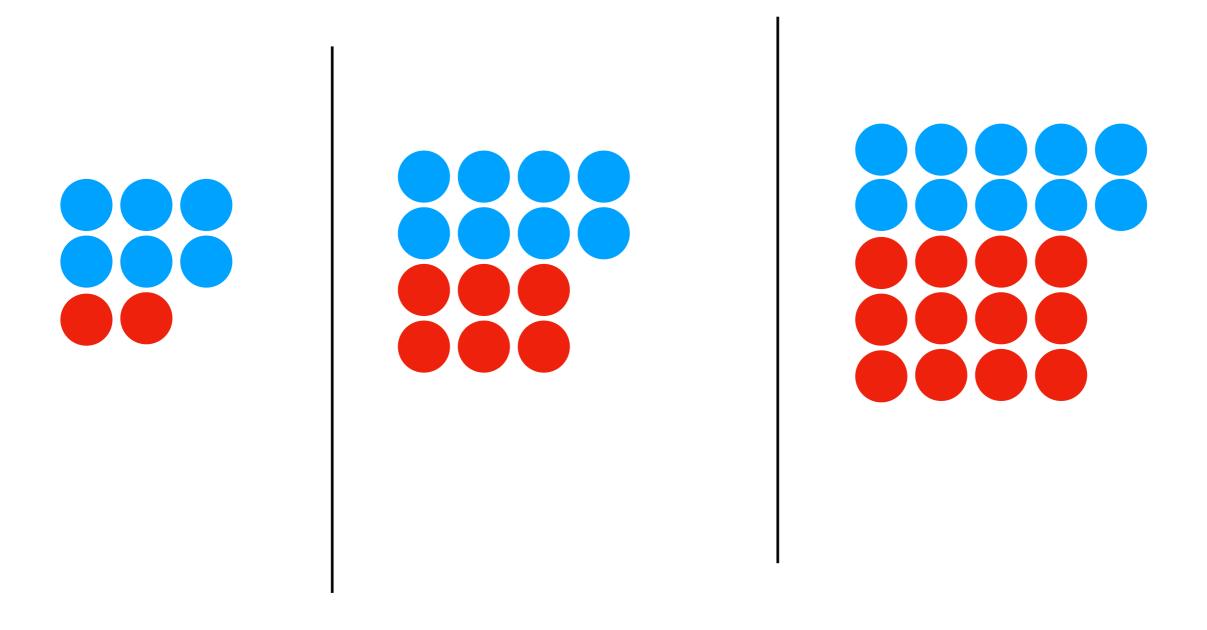


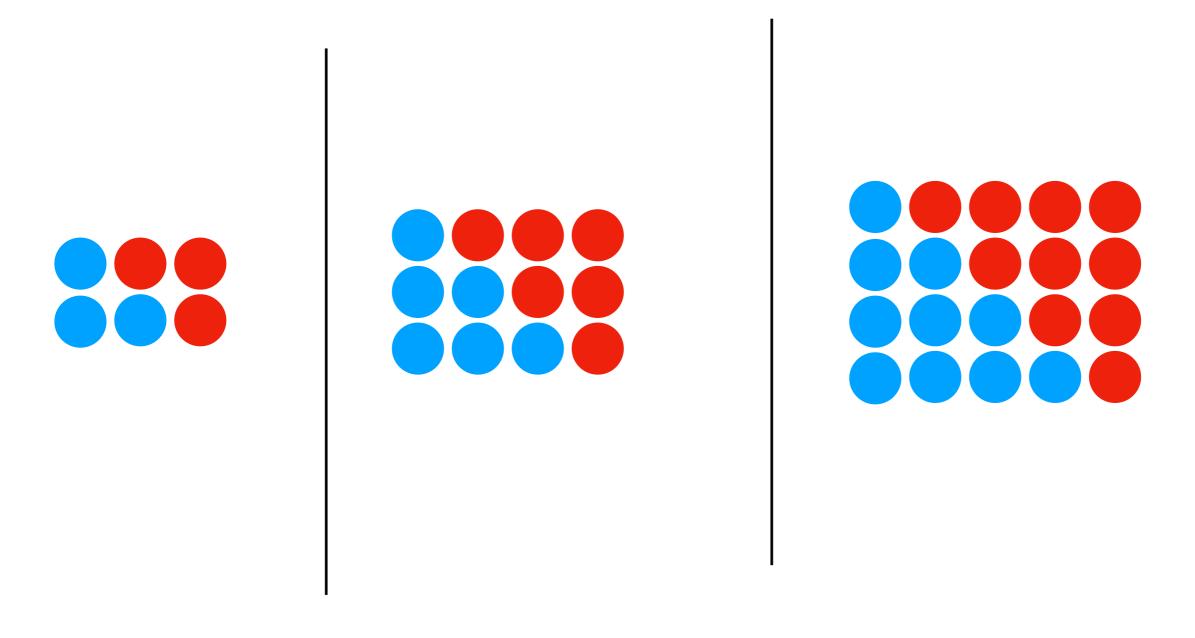


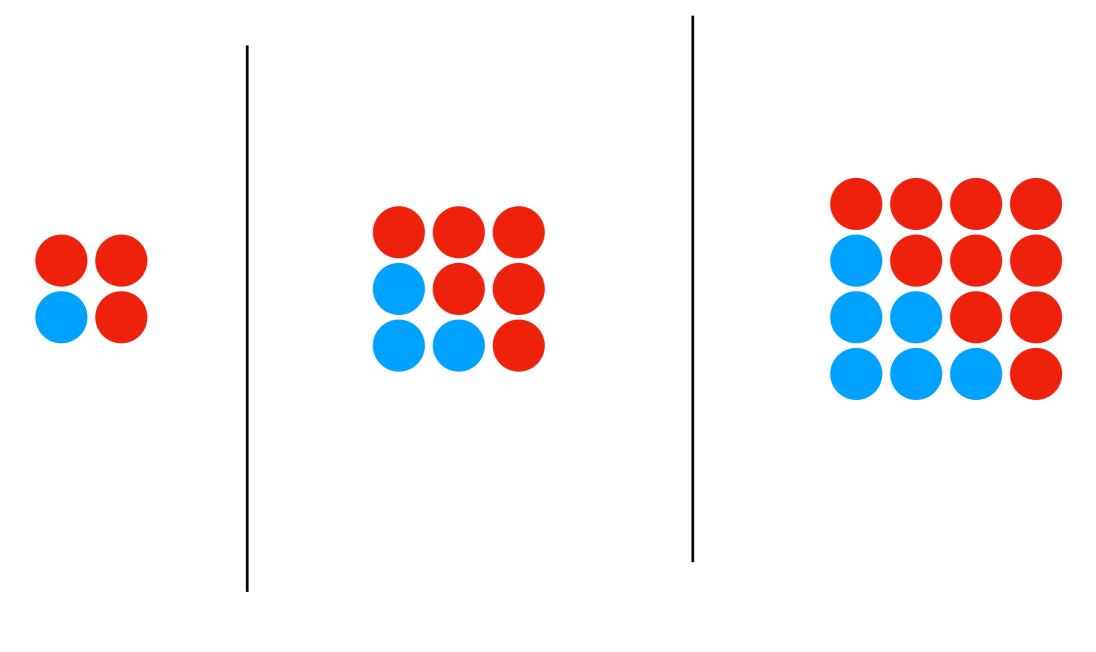


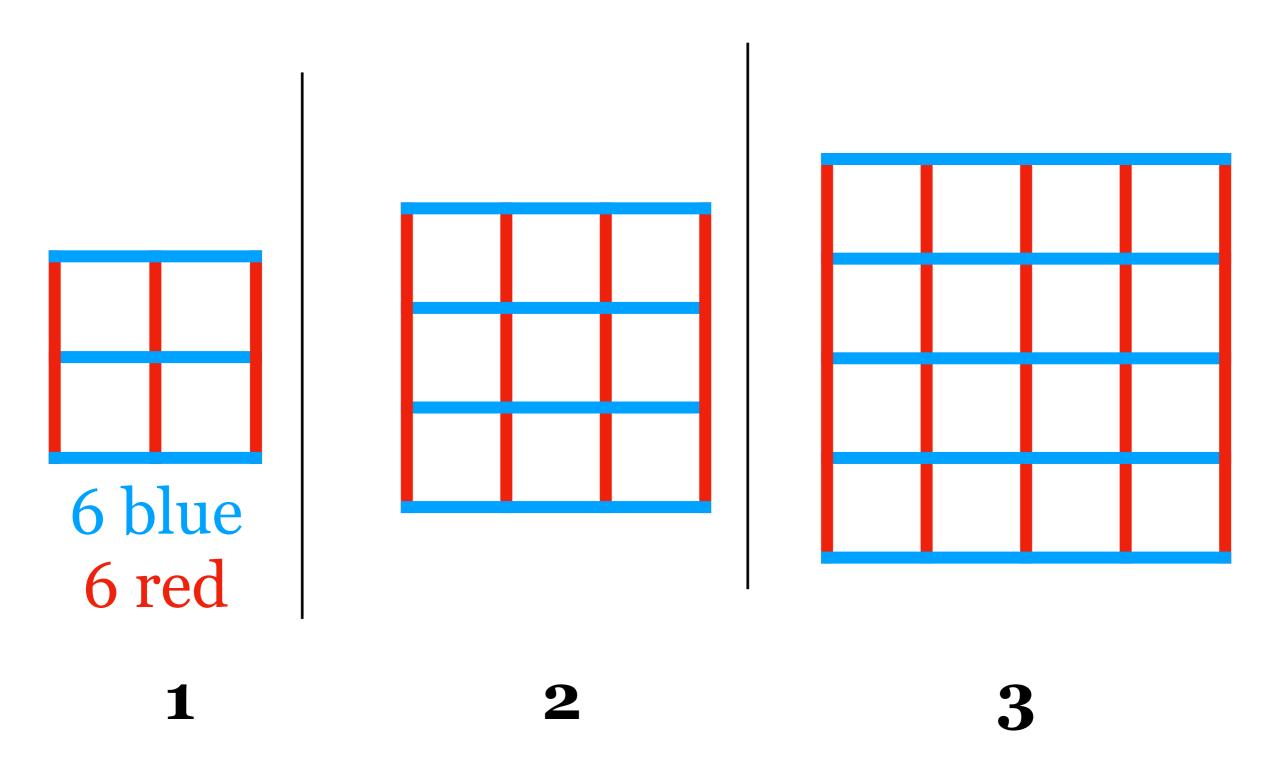
2 3











Hint: In this one, count unit edges

