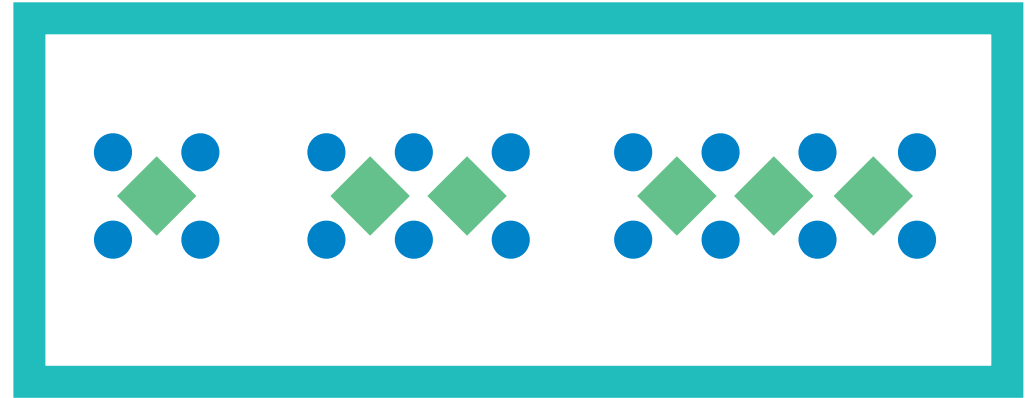
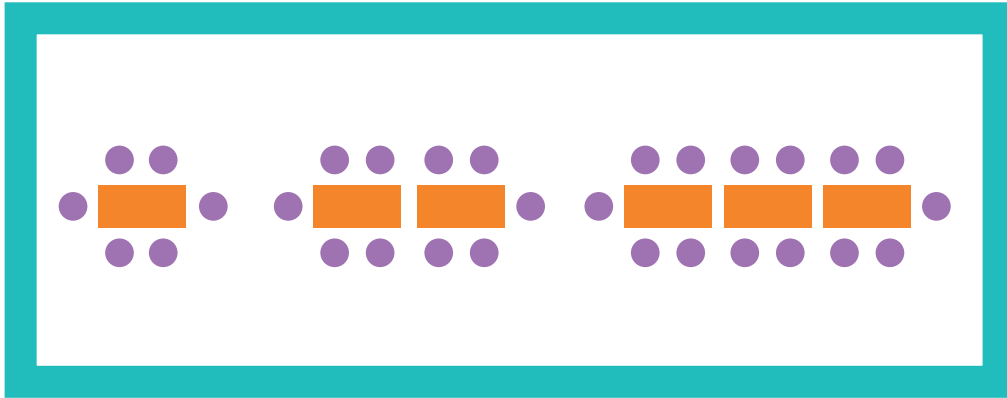


S	1	2	3
C	4	6	8

S	1	2	3
C	3	5	7

$$\underline{c=2s+2}$$

$$\underline{c=2s+1}$$

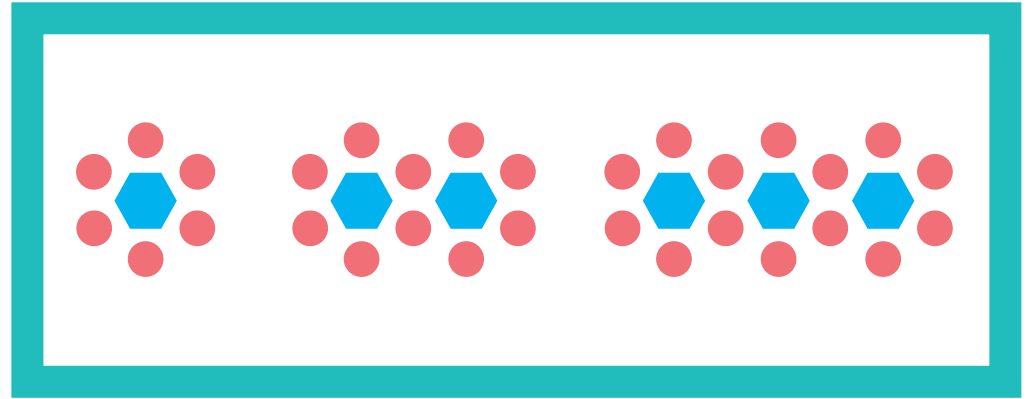
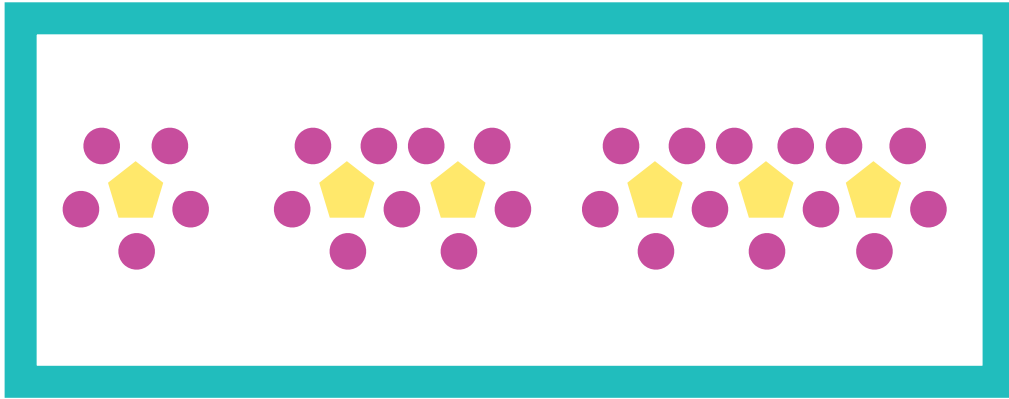


S	1	2	3
C	6	10	14

S	1	2	3
C	4	6	8

$$\underline{c = 4s + 2}$$

$$\underline{c = 2s + 2}$$

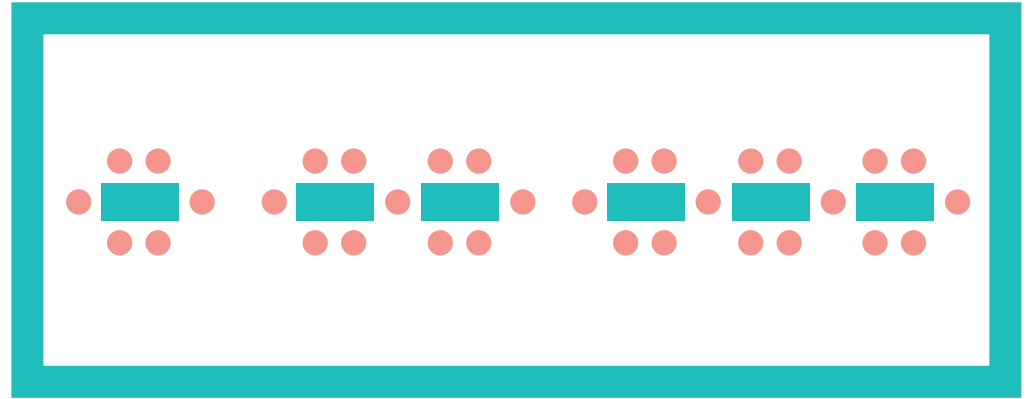
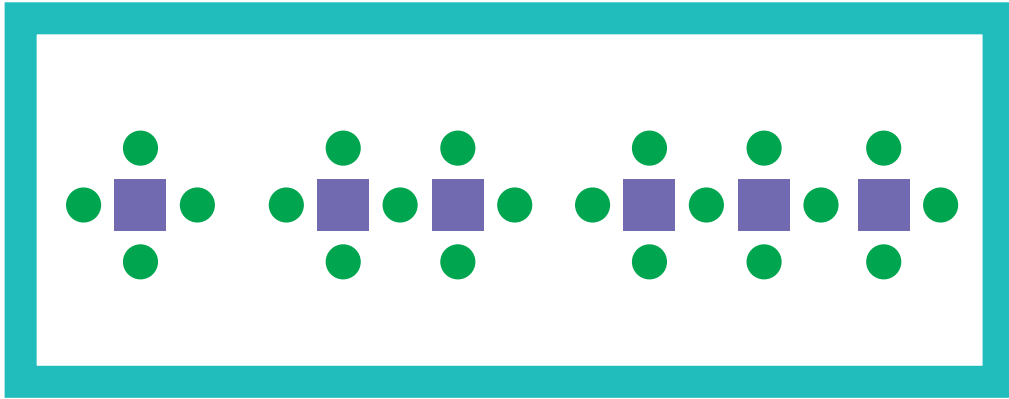


S	1	2	3
C	5	9	13

S	1	2	3
C	6	10	14

$$\underline{c = 4s + 1}$$

$$\underline{c = 4s + 2}$$



S	1	2	3
C	4	7	10

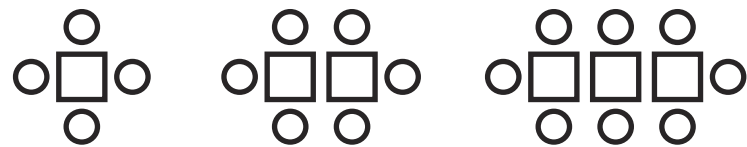
S	1	2	3
C	6	11	16

$$\underline{c = 3s + 1}$$

$$\underline{c = 5s + 1}$$

Expressing Patterns Algebraically

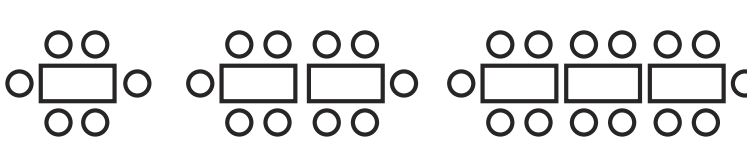
Look at the patterns, fill in the table with the numbers of shapes and circles. Using this information, write a formula for the pattern.

1. 

S			
C			

2. 


S			
C			

3. 

S			
C			

4. 

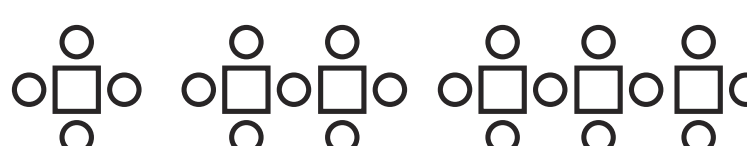
S			
C			

5. 

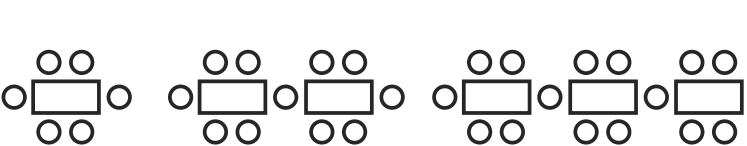
S			
C			

6. 

S			
C			

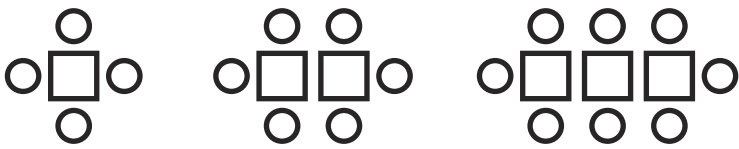
7. 

S			
C			

8. 

S			
C			

Answers

1. 

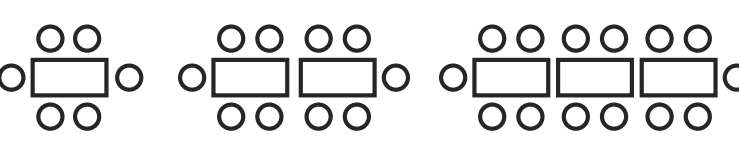
S	1	2	3
C	4	6	8

 $c=2s+2$

2. 

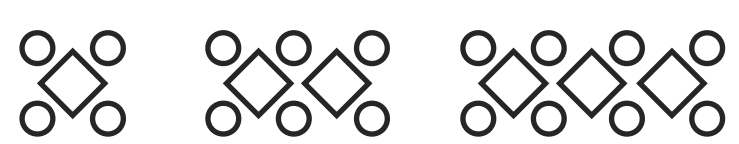
S	1	2	3
C	3	5	7

 $c=2s+1$

3. 

S	1	2	3
C	6	10	14

 $c=4s+2$

4. 

S	1	2	3
C	4	6	8

 $c=2s+2$

5. 

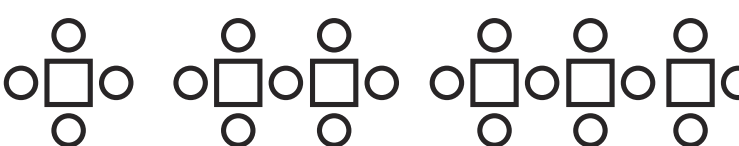
S	1	2	3
C	5	9	13

 $c=4s+1$

6. 

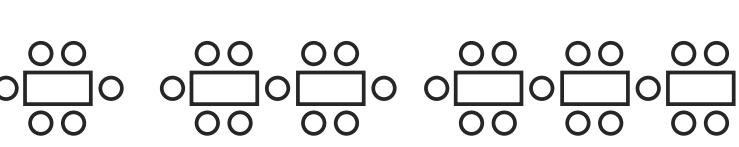
S	1	2	3
C	6	10	14

 $c=4s+2$

7. 

S	1	2	3
C	4	7	10

 $c=3s+1$

8. 

S	1	2	3
C	6	11	16

 $c=5s+1$