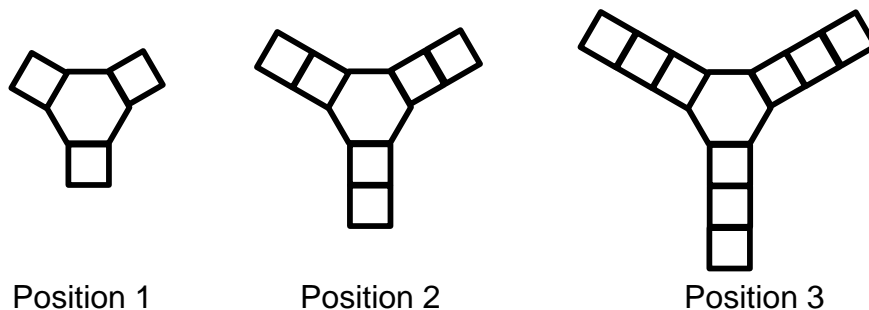


Patterns

1. How does the total number of pieces used to build each figure in the pattern change from one position to the next?



2. Write an algebraic expression in terms of the position number for the total number of pieces used to build each figure in the geometric pattern at each position.

3. Describe what each part of the algebraic expression represents.

4. Discuss patterns in the table.

Position (Term Number)	Process	Total Pieces (Term)
1	$3(1) + 1$	4
2	$3(2) + 1$	7
3	$3(3) + 1$	10
5	$3(5) + 1$	16
n	$3(n) + 1$	