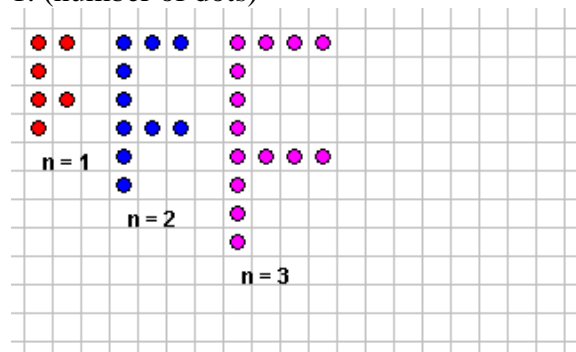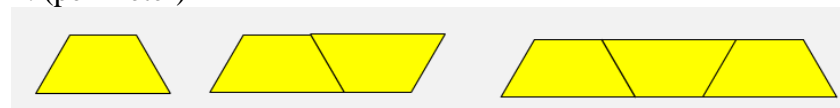Some more visual patterns. For 1-4, find the algebraic equation and explain how the equation fits the visual pattern. Draw and use color coding (or similar) to clarify your explanation.
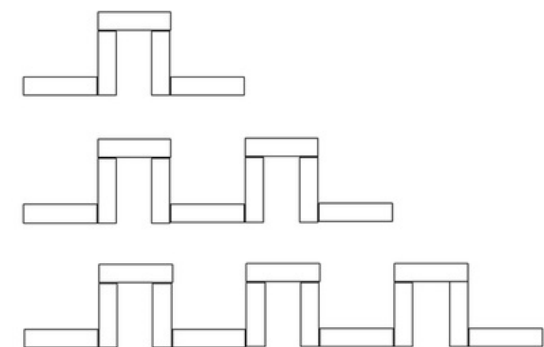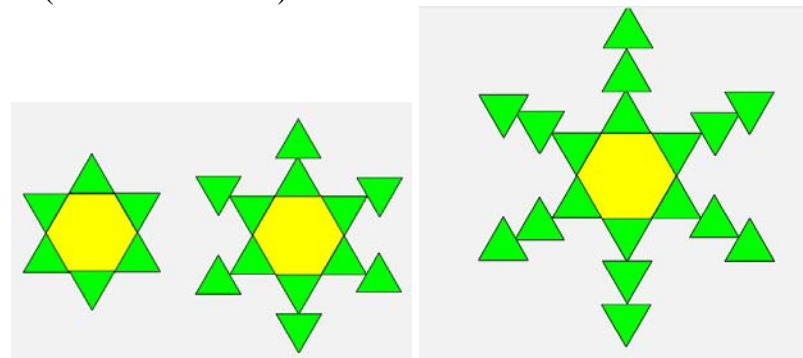
1. (number of dots)

2. (perimeter)

3. (number of blocks)
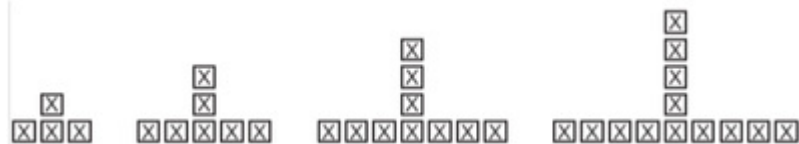

4. (number of blocks)

5. In pattern #4, if you have 100 pattern blocks total, what is the largest pattern number you can make? Solve with an equation   Solve by reasoning and writing about the pattern
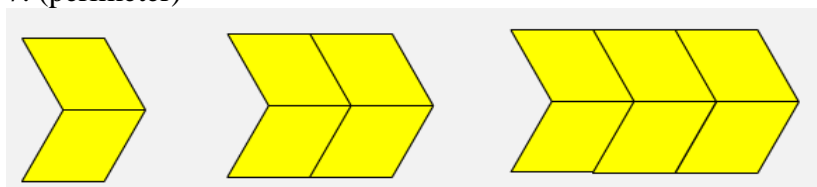
For 6-9, find the algebraic equation and explain how the equation fits the visual pattern. Draw and use color coding (or similar) to clarify your explanation.
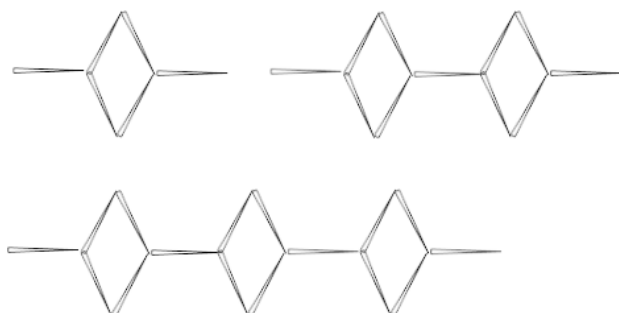
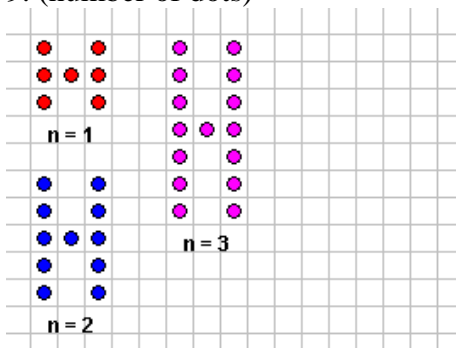6. (number of squares)   name:_____

7. (perimeter)

8. (number of toothpicks)

9. (number of dots)

n = 1

n = 2

n = 3

10. In In pattern #9, if you have 100 dots you can use, what is the largest pattern number you can make?
Solve with an equation   Solve by reasoning and writing about the pattern