

PATTERN TASK ASSESSMENT 1

Name : _____
Date : _____

Choose **ONE** of the patterns on the back of this sheet. Then do the following for the pattern you chose:

1. Draw the 4th and 5th steps of the pattern.
2. Figure out how many blocks (total and of each color) would be in the 10th step?
3. Figure out how many blocks (total and of each color) would be in the 53rd step?
4. Figure out the biggest step number you could make with 100 blocks. (You may have some blocks leftover).
5. Write a general rule (equation/formula) that would give the total number of blocks, t , for any step in your pattern, n .

For extra credit, you may also do a write-up for a second pattern.

Report Format :

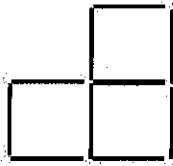
- **Process:** Describe what you did in attempting to solve the problem. How did you start off? Include things that did not work out or that seemed like a waste of time. Provide diagrams and sketches when needed. Do this part of the write-up even if you did not solve the problem . All of the work you tried should be in this section.
- **Solutions:** State your solution to each question as clearly as you can. Explain how you know that your solution is correct and complete. If you obtained only a partial solution, give that.

Pattern Options:

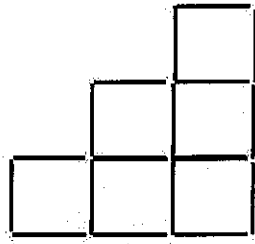
Pattern 1: Building Blocks



Pattern #1



Pattern #2

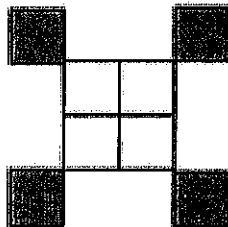


Pattern #3

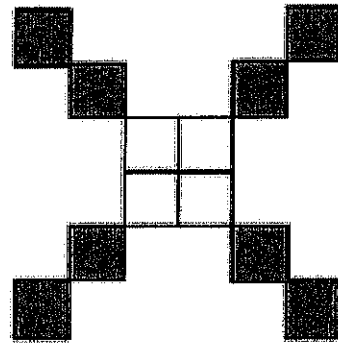
Pattern 2: Square X's



Pattern #1



Pattern #2

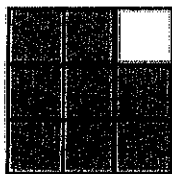


Pattern #3

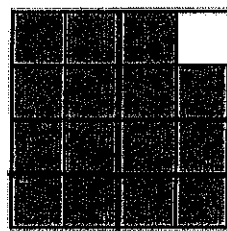
Pattern 3: Mutli-Square



Pattern #1



Pattern #2



Pattern #3