Patterning Test

Name:____ ____

1. For each pattern:
   i) Describe the pattern.
   ii) Write the next 3 terms.
   iii) Find the 10th term.
   a) 5, 8, 11, 14, ...
   b) 14, 25, 36, 47, ...
   c) 1, 8, 27, 64, ...
   d) 1, 3, 7, 15, 31, ...

2. a) Describe the Stepwise pattern.
   b) How can you find an output number when you know an input number? (general pattern)
   c) Write the next 3 rows in the table.

Input	Output
1	8
2	11
3	14
4	17
5	20
6	23

3. Here is a pattern of tiles.

Term 1   Term 2   Term 3

   a) Make a table to show the numbers of light and dark tiles in each term.

   This pattern continues.

   b) How many light tiles will there be in the 20th term?
   c) How many dark tiles will there be in the 100th term?
   d) What will be the total number of tiles in the 30th term?
   e) How many light tiles will be in the term that has 48 dark tiles? How do you know?