ACTIVITY SHELT 3-8

- 1. A sequence of numbers was generated using the rule 3n-2, where n represents a numbers position in the sequence. Which sequence fits this rule?
- A 2, 3, 4, 5, 6, ...
- B 1, 4, 7, 10, 13,...
- C 5, 8, 11, 14, 17,...
- D 1, 2, 3, 4, 5,...
- 2. Write an expression for the nth term of each sequence. The variable n represents the number of the term, such as 1^{st} , 2^{nd} , 3^{rd} , and so on.

0, 3, 6, 9, 12,...

1, 3, 5, 7, 9, 11,...

1, 4, 9, 16, 25,...

7, 12, 17, 22, 27,..._____

1, 8, 27, 64,125,...

4, 7, 12, 19, 28, ...

3. Which expression can be used to find the nth term in the following arithmetic sequence, where n represents a numbers position in the sequence?

Position in					
Sequence	1	2	3	4	n
Term	5	7	9	11	?

- A 5n
- B 3n+1
- C 2n+3
- D 3n-1

4. What is the rule for the following sequence?

Position in					
Sequence	1	2	3	4	n
Term	4	7	10	13	?

5. Which equation describes the data in the table?

a	2	4	6	8	10
b	0	1	2	3	4

- A. b = 1/2 a 1
- B. b = a 2
- C. b = 2a 6
- D. b = 2a 3