



## INNOVATIVE LEARNING SHEET 1 | SEQUENCES



NAME: \_\_\_\_\_

SCORE: \_\_\_\_\_



Objectives:

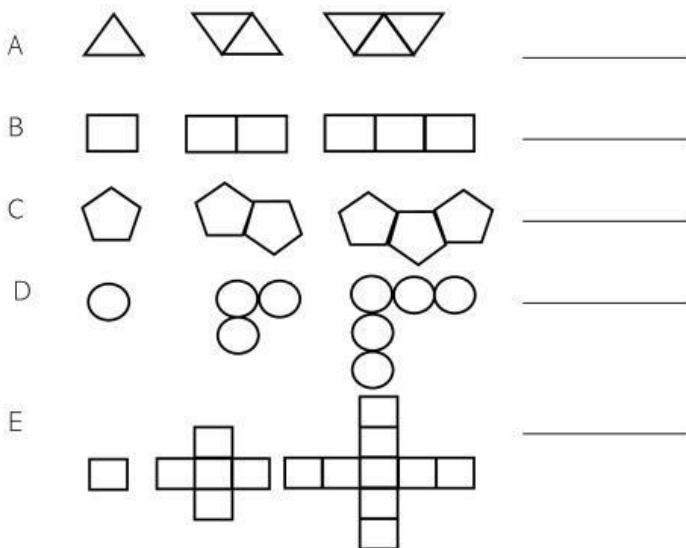
1. Identify patterns in sequences.
2. Generate rules from patterns.
3. Solve problems involving sequences.



TASKS



Study the figures below and identify the patterns. What is the number of the next pattern?



Based on the sequences above, generate the numerical equivalent of each figure. Select your answer on the choices.

A. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

B. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

C. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

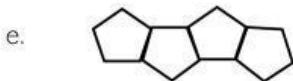
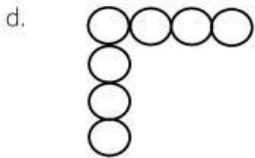
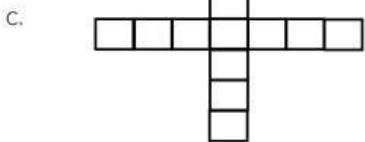
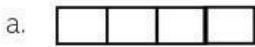
D. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

E. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.



Select the next figure for each sequence above. Choose from the choices below.

A	B	C	D	E



Solve the following problems.

1. Find the next three terms in  
-2, -6, -18, -54, -162.

2. Find the first three terms if the rule is  $a_n = 2n^2$ .

3. Jim is stacking alphabetic blocks in the pattern shown at the right. The number of blocks in each stack represents the terms in a sequence. What rule describes this pattern?

