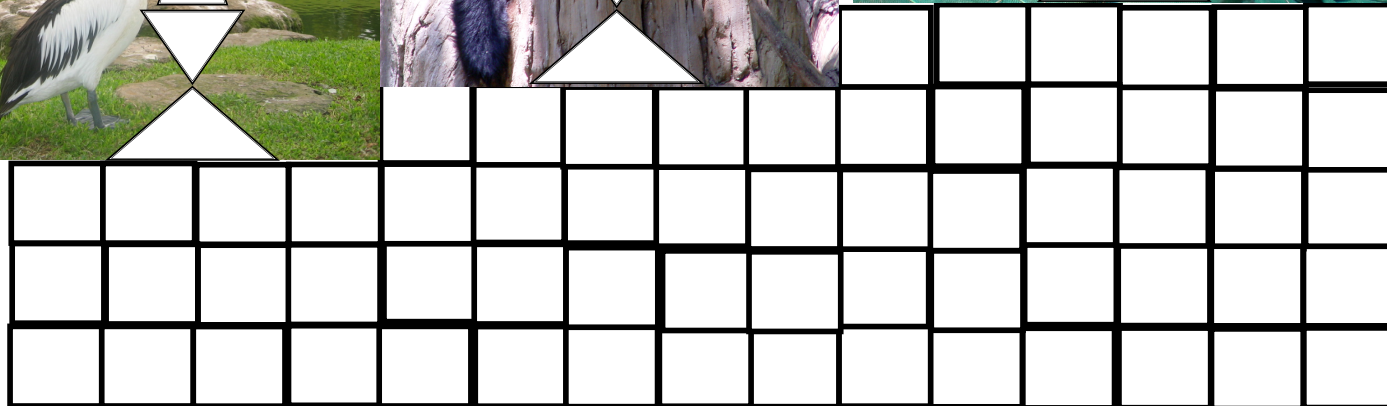
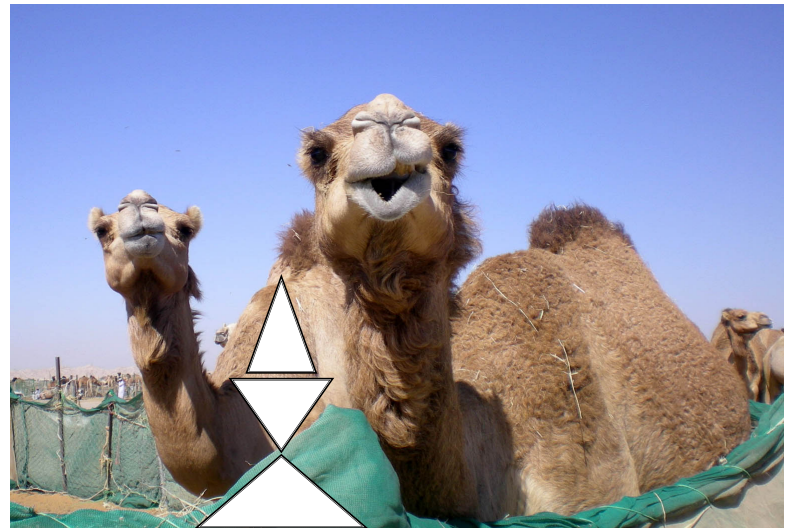
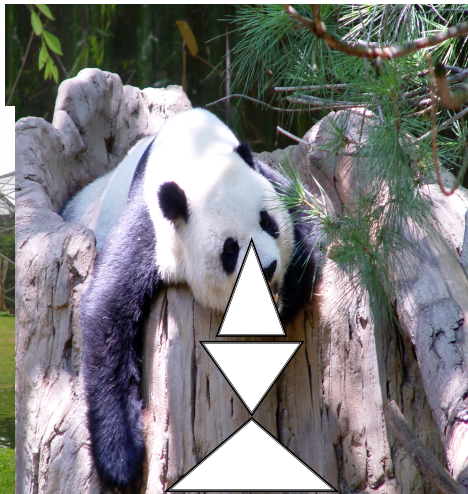
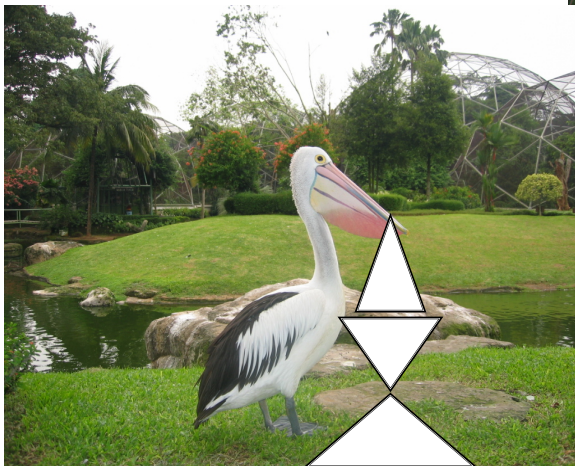


# THE GREAT WALL

## CHALLENGE 6

- ❑ Students use GROWTH PATTERNS to CREATE FORMULAS and SOLVE FOR VARIABLES!
- ❑ Includes a Video Tutorial for Each Problem!



# THE GREAT WALL

## HOW TO USE THIS BOOK

### Teachers

- Upload this PDF into your Google Classroom.

### Students

- Complete each problem.
- Correct your own work, while watching the video tutorials.
- After correcting your work, take your paper to your teacher for a final check.

# THE GREAT WALL

## CHALLENGE 6

PELICAN PETE, HIDE AND GO SEEK ZEEK, AND CAMEEL & KAMEL ARE ATTACKING!

Pelican Pete has stole all the golf balls from Pebble Beach Golf Club. Hide and Go Seek Zeek has outsmarted all the animals in japan. Cameel & Kamel the singing camels have defeated all the contestants on American Idol. Now Pelican Pete, Hide and Go Seek Zeek, and Cameel & Kamel are heading toward your school. They plan is to Steal all the PE Balls, Hide all your school supplies, and out perform all the students at your school. But that's not the worst of it - more animals are coming! You have just been told that there are 96 different animals headed toward your school with destruction on their minds.

Lucky for you, your school architects have designed a wall that grows at the same rate that these animals are growing. Your job, as School Mathematician, is to discover how many bricks are needed to build your GREAT WALL!

# Growth Pattern for your GREAT WALL!

Photo by Dobby Wirawan

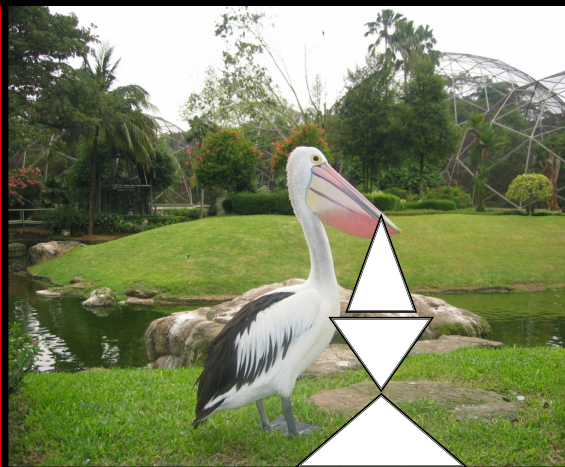
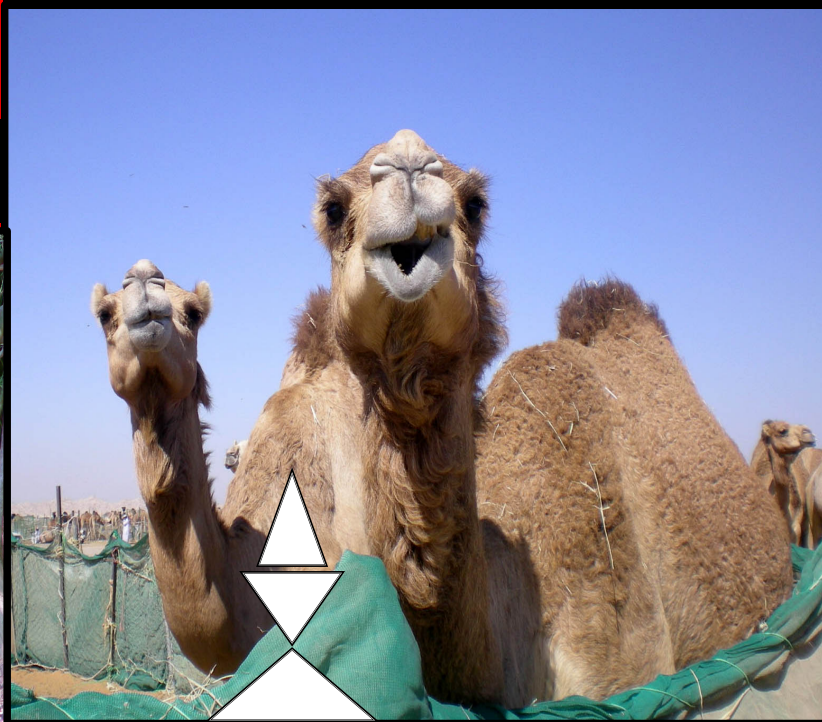


Photo by chevalgal



Photo by Kevin Lafferty



Section 1

Section 2

Section 3

Each square or triangle counts as one block!

# ON YOUR OWN

## Step A

Follow these Steps:

1. Refer to the prior page. Copy the first three Sections of the GREAT WALL on your paper.
2. Based on the pattern, figure out the 4<sup>th</sup> section of the wall and draw that section next to the first three sections.

This is an **On Your Own** problem. Complete the problem.  
Then Click the link below.

Click on the  
Pelican Pete



To Watch  
This Video

# ON YOUR OWN

## Step B

Follow these Steps:

1. Create a T-Chart that shows the number of blocks needed to build the 7<sup>th</sup> section.
2. Solve for the Iterative Function, which is also the Co-Efficient.
3. Color the Co-Efficient blue on each section that you drew.
4. Color the constant red on each section that you drew.

This is an **On Your Own** problem. Complete the problem.  
Then Click the link below.

Click on the  
Hide & Go  
Seek Zeek



To Watch This  
Video

# ON YOUR OWN

## Step C

Use your iterative function and your drawings to create a formula that will work for any section number. Be sure to illustrate your formula on your drawings.

Test your formula against section 5, section 6, and section 7 to make sure that it agrees with your T-Chart!

This is an **On Your Own** problem. Complete the problem. Then Click the link below.

Click on the  
Cameel & Kamel



To Watch This  
Video

# ON YOUR OWN

## Step D

Your school scientists have just discovered more animals!  
There are 96 different types of animals attacking your school.  
You need a section for each animal.  
How many blocks are needed to build the

96<sup>th</sup>

section?

This is an **On Your Own** problem. Complete the problem.  
Then Click the link below.

Click on the  
Hide & Go  
Seek Zeek



To Watch This  
Video



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Thank you Brian McCoy







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