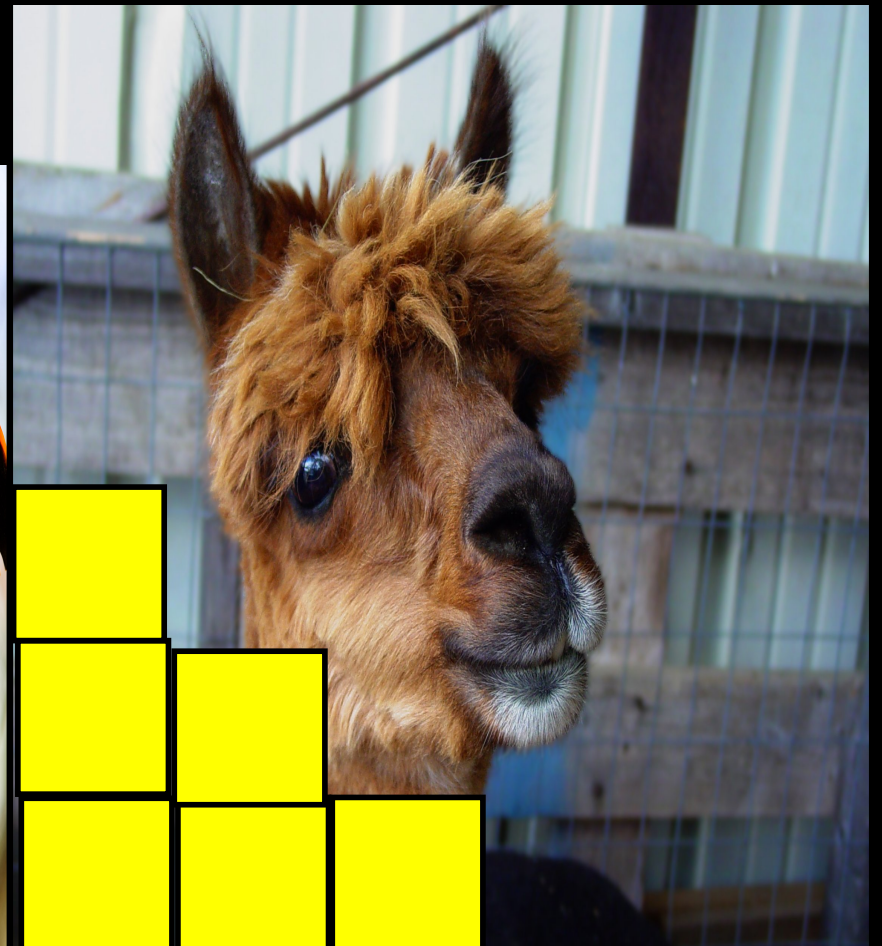


THE GREAT WALL

CHALLENGE 9

- ❑ 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 9

Lenny the One Armed Lobster, Tommy Toucan, and Munching Mary the Hungry Llama are headed toward your school!

Lenny the One Armed Lobster loves French fries. He will pinch the boys and girls and steal all their fries. Tommy Toucan not only loves Fruit Loops, he loves all cereals and plans on stealing all the morning meals from your school. Tommy Toucan will peck anyone who tries to stop him. Munching Mary the Hungry Llama loves hamburgers most of all, but she will eat anything. Munching Mary is notorious for kicking students out of their chairs, and eating all their lunches. But that's not the worst of it - more animals are coming! You have just been told that there are 14 different animals attacking your school. Lucky for you - your school architects have designed a wall that will save your school. Your job, as School Mathematician, is to create and use an algebraic formula to discover the number of blocks needed for your GREAT WALL!

Growth Pattern for your GREAT WALL!

Photo by
Bruce Skinner

Photo by
Fernando Weberich

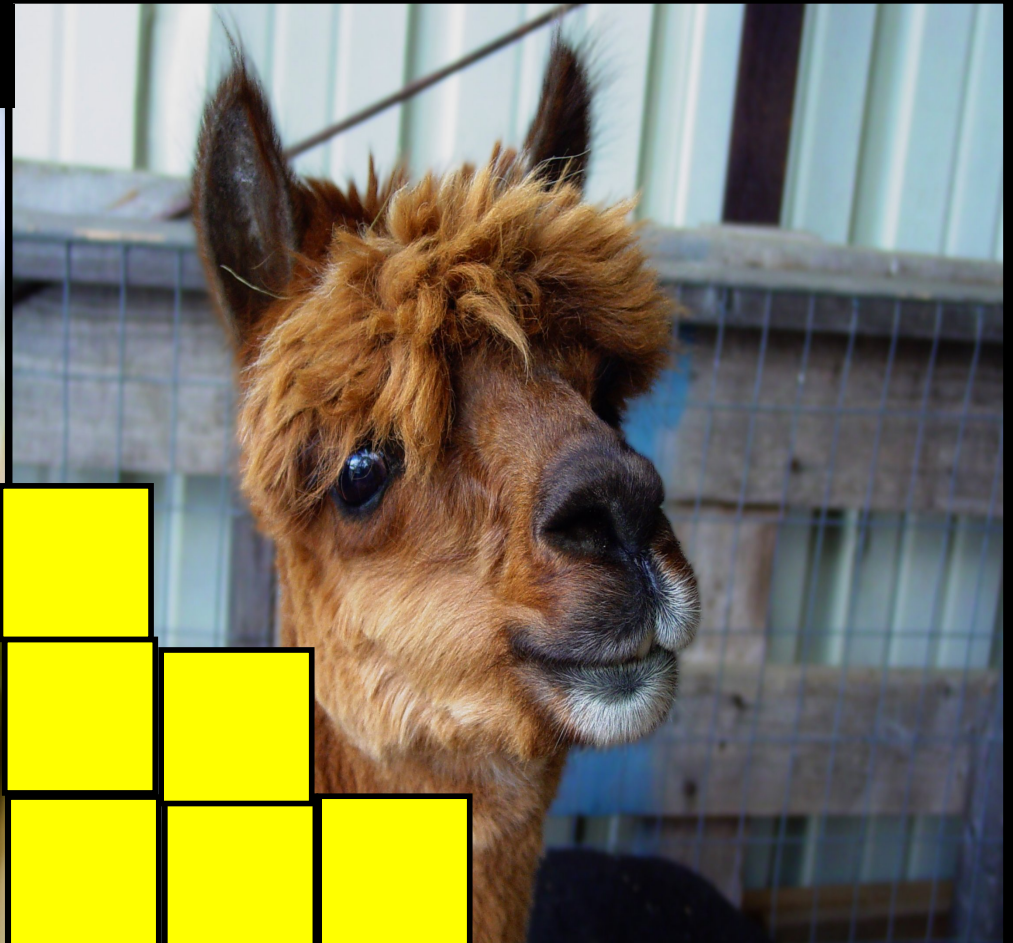
Photo by
Gerla Brakkee



Section 1



Section 2



Section 3

Each square 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 4th 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 Munching
Mary the Hungry
Llama



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 7th 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 Lenny the
One Armed
Lobster



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
Tommy Toucan



To Watch
This Video

ON YOUR OWN

Step D

Your school scientists have just discovered more animals!
There are 14 different types of animals attacking your school.

You need a section for each animal.
How many blocks are needed to build the

14th

section?

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

Click on Munching
Mary the Hungry
Llama



To Watch
This Video

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Thank you Brian McCoy

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