

THE GREAT WALL

CHALLENGE 3

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

Section 1 Section 2 Section 3

Each square, star, and triangle counts as one block!

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 3

WICKED WASPS, ABOMINABLE ALLIGATORS, AND BRUTAL BISON ARE ATTACKING!

Wicked wasps are buzzing and swarming in anticipation of stinging unsuspecting children. Abominable alligators are crawling faster than fast in anticipation of snapping their jaws on a tasty leg. And, brutal bison are swinging their heads and thrusting their horns in anticipation of breaking down the classroom walls. But that's not the worst of it - more animals are coming! You have just been told that there are 67 different animals racing toward your school in anticipation of destruction.

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 wall. If you solve these algebraic problems, your GREAT WALL will protect all the children within your school!



Growth Pattern for your GREAT WALL!

Photo by
Jacqueline Bobeldijk

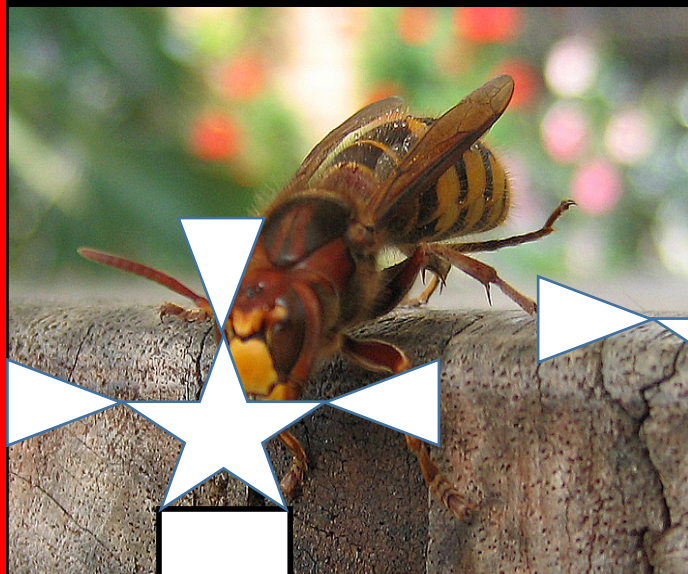
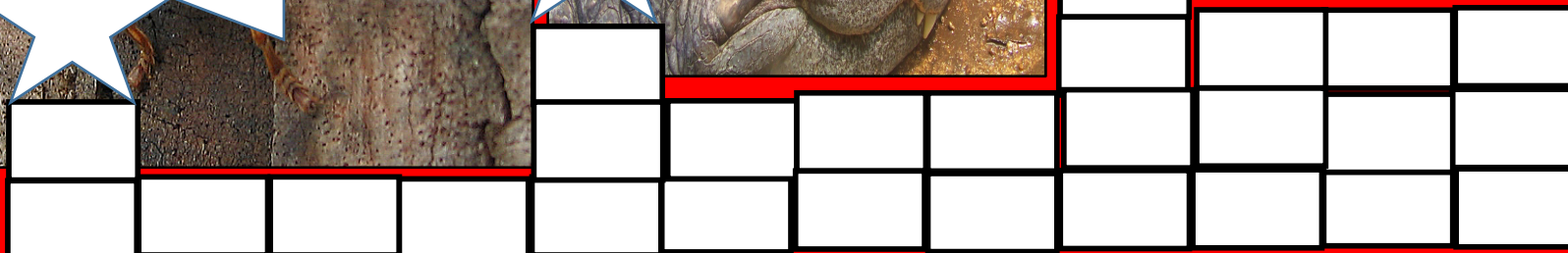


Photo by
val70



Photo by
Kym Parry



Section 1

Section 2

Section 3

Each square, star, and 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 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 the
Wicked wasp



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 the
Abominable
Alligators



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
Brutal Bison



Watch This Video

ON YOUR OWN

Step D

Your school scientists have just discovered more animals!
There are 67 different types of animals attacking you school.

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

67th

section?

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

Click on the
Abominable
Alligators



To Watch This Video

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Thank you Brian McCoy

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