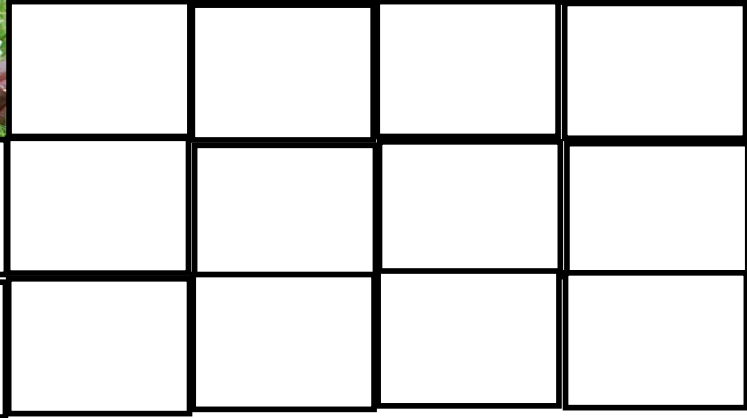
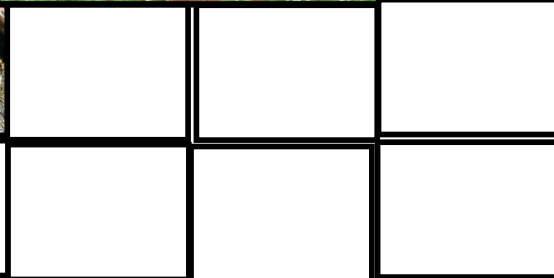
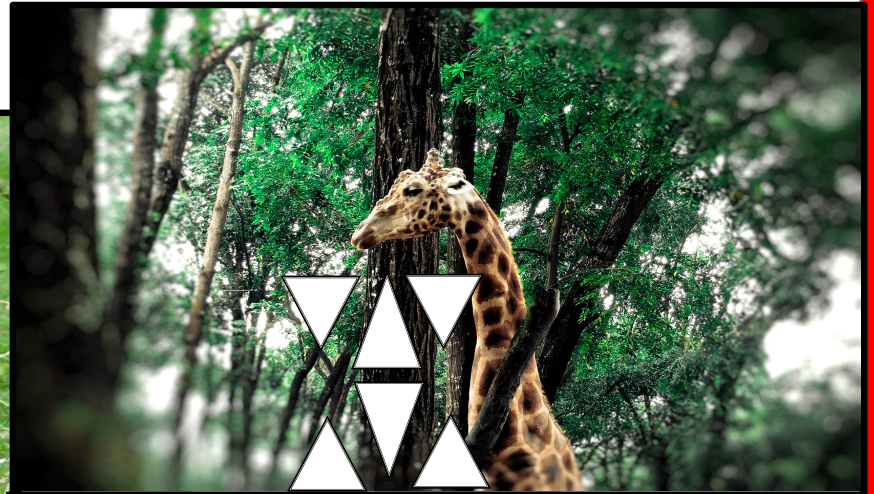
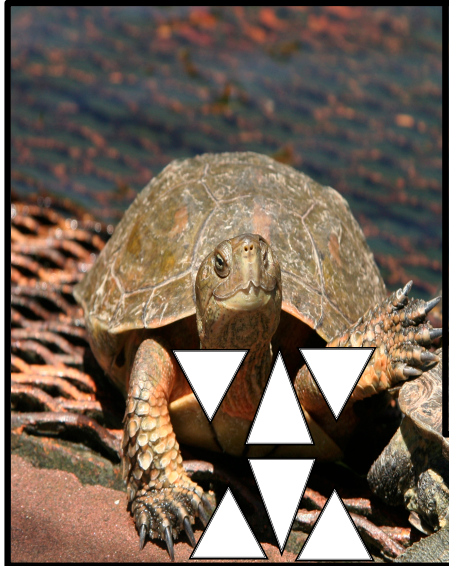


THE GREAT WALL

CHALLENGE 7

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



Section 1

Section 2

Section 3

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 7

Ferlon the High Fiving Tortoise, Pinky Tuskadaro the Calculating Orangutan, and Wrong Way John are headed toward your school!

Ferlon the High Fiving Tortoise, is so friendly that he will steal all your friends. Pinky Tuskadaro the Calculating Orangutan is so brilliant that he will win every mathematical award. And, Wrong Way John will lead all your schoolmates on an endless journey of heading in the wrong direction and getting hopelessly lost. But that's not the worst of it - more animals are coming! You have just been told that there are 123 different animals headed toward your school.

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 Gerla Brakkee

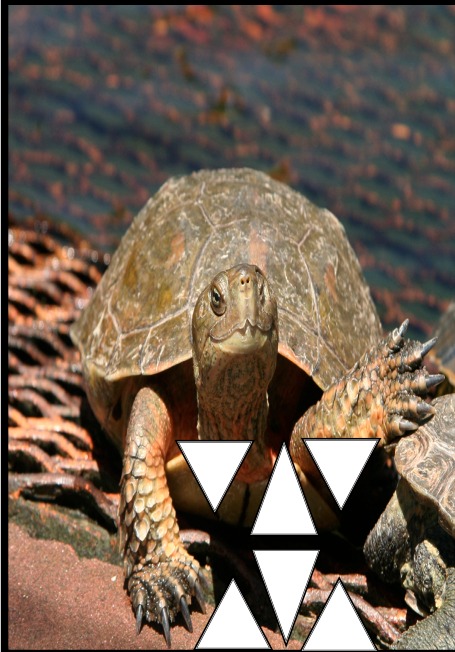
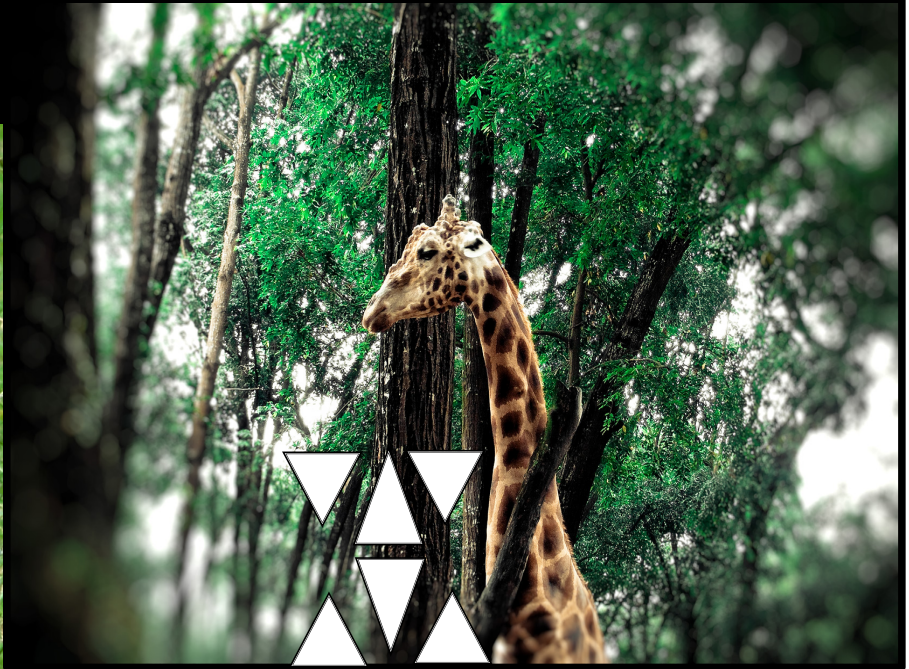


Photo by Cliff Howard



Photo by Nino Satria



Section 1



Section 2



Section 3

Each square or triangle counts as one block!

ON YOUR OWN

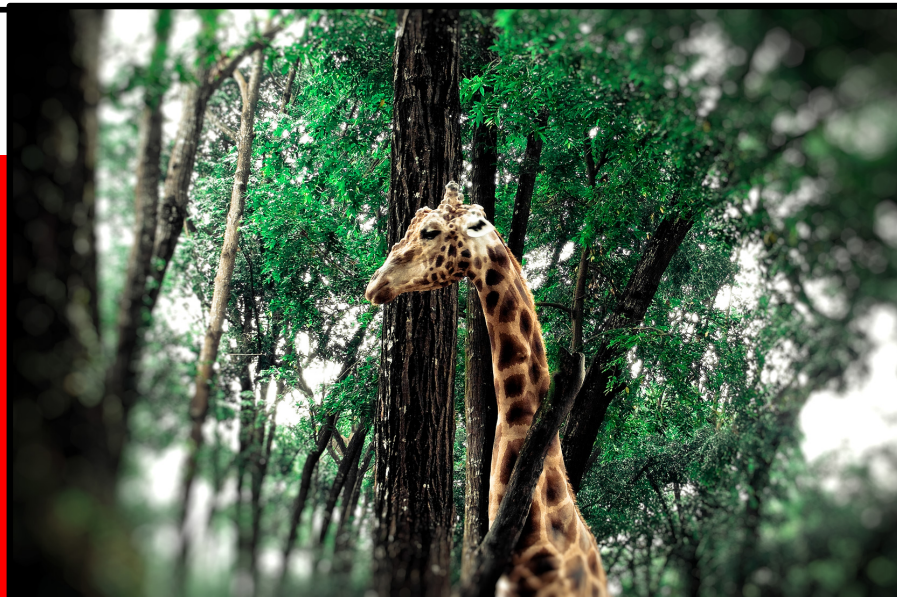
Step A

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 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 Wrong
Way John



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 Ferlon the
High Fiving Tortoise



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 Pinky
Tuskadaro the
Calculating
Orangutan



To Watch
This Video

ON YOUR OWN

Step D

Your school scientists have just discovered more animals!
There are 123 different types of animals attacking your school.

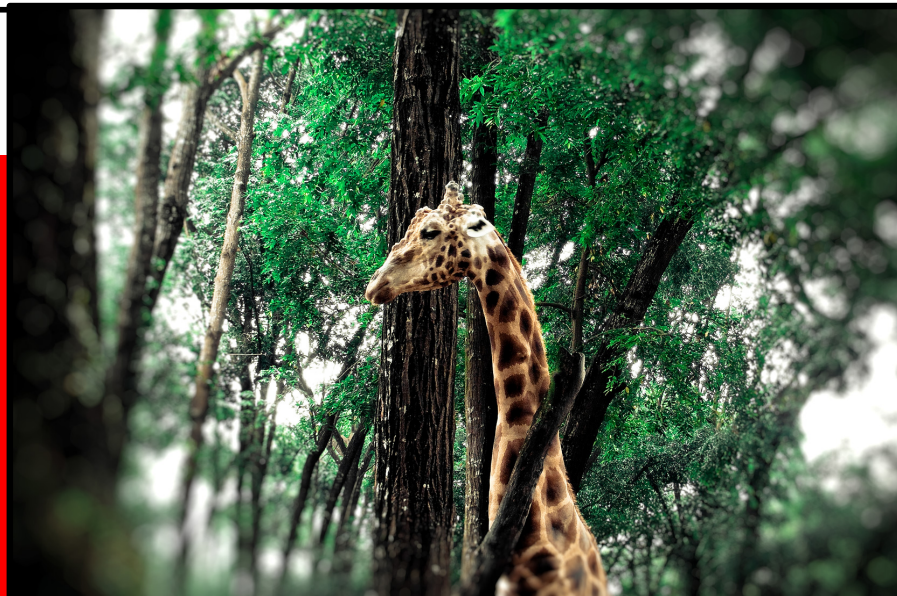
You need a section for each animal.
How many blocks are needed to build the

123rd

section?

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

Click on Wrong
Way John



To Watch
This Video

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