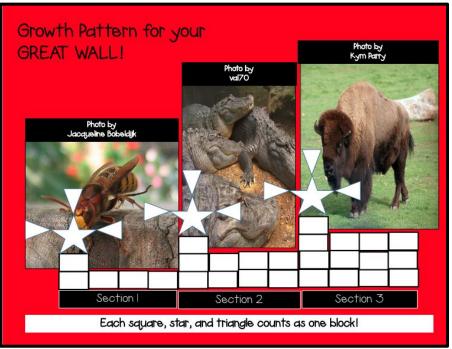


Book 3







Students Use Growth Patterns to Create Formulas and Solve for Variables!

Solution Includes a Video Tutorial for Each Step of this Problem!

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



🔥 <u>Will your math skills be enough to save your school?</u> 🔥

Build the GREAT WALL and protect the students! 🏫 🔐

Wicked wasps are buzzing and swarming, ready to sting unsuspecting children!

- Abominable alligators are crawling faster than fast, eager to snap their powerful jaws on a tasty leg!
- Srutal bison are swinging their massive heads and thrusting their sharp horns, attempting to break down the classroom walls!

But that's not the worst of it—more creatures are on their way! You have just been told that 67 different animals are racing toward your school, ready for destruction!

EXAMPLE 1 Luckily for you—your school architects have designed a powerful wall that grows at the same rate as these attacking animals!

Your mission as the School Mathematician is to **calculate how many bricks are needed to build the wall** and protect your school!



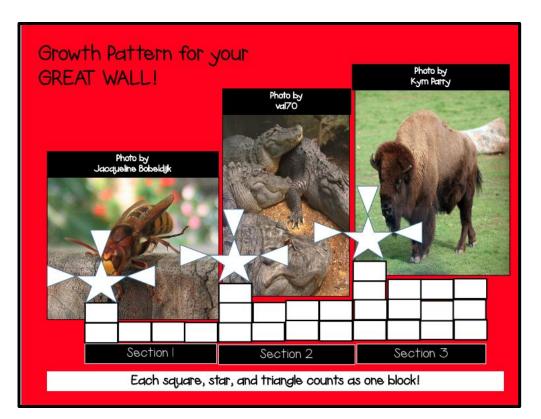
Complete this problems first
Then, Click on the photo to watch the video and check your answer!

🔹 📝 On Your Own 💡 🎥 🔹

📝 Follow these Steps:

1 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.





On Your Own
Complete this problems first
Then,
Click on the photo to watch the video and check your answer!

Follow these Steps:

Create a T-Chart that shows the number of bricks needed to build the **7th section**.

2 Solve for the Iterative Function, which is also the **Coefficient**.

3 Color the Coefficient **blue** on each section that you drew.

Color the Constant red on each section that you drew.





On Your Own
Complete this problems first
Then,
Click on the photo to watch the video and check your answer!

<u>Follow these Steps:</u>

Vse Your Strategy:

W Use your iterative function and your drawings to create a formula that will work for any section number.

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 1**!





🔹 📝 On Your Own 💡 🎥 🔹 🔽 📥 Complete this problems first 📏 📄 Then, Click on the photo to watch the video and check your answer! 🎥 🐾

<u>New Discovery!</u>

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

? How many bricks are needed to build the 67th section?



