

Book 5







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

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

LANDOLING KOMODO DRAGONS ARE ATTACKING!



Will your math skills be enough to save your school?

Build the GREAT WALL and protect the students! 🏫 🔐

Slithering snakes have been spotted crawling over rocks and under bushes, their fangs ready to strike!
 Vampire bats swoop in at night, their beady red eyes locked on unsuspecting students!
 Komodo dragons waddle down the street toward your school, their razor-sharp teeth eager to chomp down on tasty legs!

But that's not the worst of it—more creatures are on their way! You have just been told that **89 different animals** are **charging toward your school, ready for destruction!**

EXAMPLE 1 Lucky for you—your school architects have designed a wall that grows at the same rate as these animals. Your job, as the School Mathematician, is to calculate how many bricks are needed to build your wall.

Solve these algebraic problems and your GREAT WALL will protect all the children within your school! 🟫 券



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Follow these Steps:

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
Mean And Series 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.

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

Color the Constant red on each section that you drew.





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Follow these Steps:

Vise Your Strategy:

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

rightarrate 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**





🔹 📝 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 89 different types of animals attacking your school.

? How many bricks are needed to build the *** 89th section**?



