



THE GREAT WALL CHALLENGE!



Book 10



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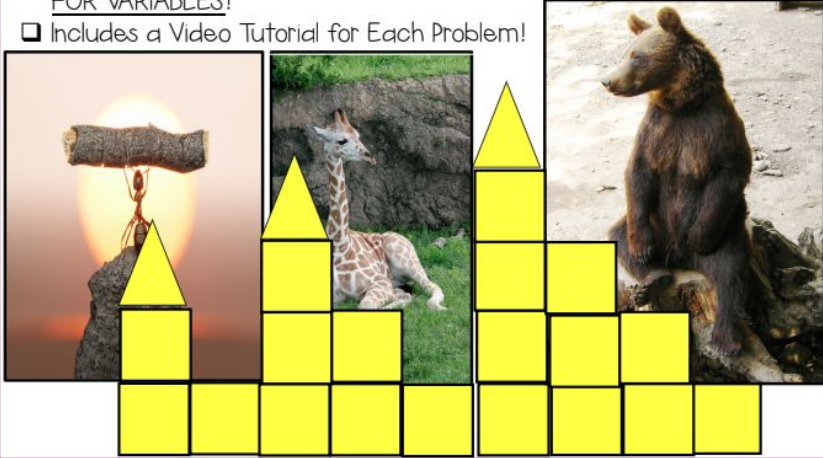


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THE GREAT WALL

CHALLENGE 10

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





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



Includes a Video Tutorial for Each Step of this Problem!



AMOS, GINNY, & COMFORTABLE TED ARE ATTACKING!



Will your math skills be enough to save your school?



Build the **GREAT WALL** and protect the students! 🏠🔑



🦋🐜 **Amos the Pumping-Iron Ant** may be friendly, but he **can't stop lifting heavy objects!** He's tossing **chairs, desks, and even lunch tables** over his head like they weigh nothing!

💖🦒 **Ginny the Love-Sick Giraffe** is **sweet to the boys but mean to the girls!** She has a habit of **stealing hearts and breaking friendships** by **winning over every boy at school!**

🪑🐻 **Comfortable Ted the Comfort-Seeking Grizzly** just wants a **cozy chair** to relax in—but at **547 pounds**, he **crushes every chair** he sits on!

❗ **But that's not the worst of it—more animals are on their way!**

📢 **Breaking News!** 📢

You've just been informed that **33 different animals** are **headed toward your school!**

🧱 **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! 🏠✨

🎥 📝 On Your Own - Step A 💡 🎥

◆ 📝 On Your Own 💡 🎥 ◆

✅ ✎ Complete this problems first 📝

▶️ Then, 👉 Click on the photo to watch the video and check your answer! 🎥 🐾

📝 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.

Photo by
Andrey Pavlov

Photo by
TK9805

Photo by
Chad Littlejohn

Growth
Pattern
for
your
GREAT
WALL!

Section 1 Section 2 Section 3

Each square or triangle counts as one block!

🎥 📝 On Your Own - Step B 💡 🎥

◆ 📝 On Your Own 💡 🎥 ◆

✅ ✎ Complete this problems first ✎ 📝

▶ Then, 👉 Click on the photo to watch the video and check your answer! 🎥 🐾

📝 Follow these Steps:

- 1) 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.
- 4) 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! 🎥 🐾

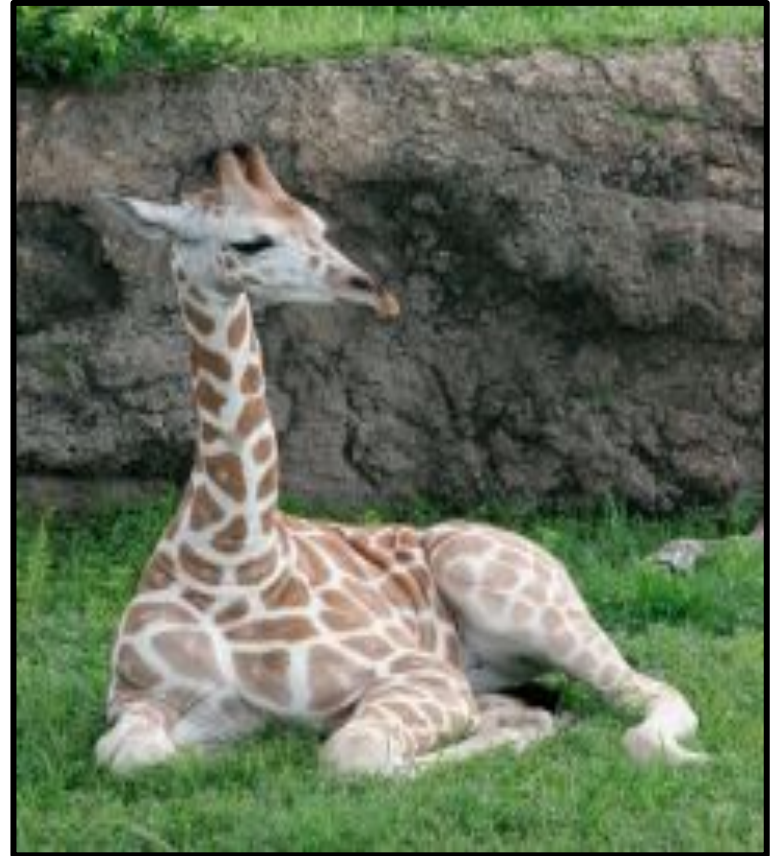
📝 **Follow these Steps:**

📝 **Use Your Strategy:**

📌 **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 📊!**








On Your Own - Step D



◆ On Your Own ◆

  **Complete this problems first** 

 Then,  **Click on the photo** to watch the video and check your answer!  

 **New Discovery!** 
 Your **school scientists** have just discovered **more animals!** There are **33 different types of animals** attacking your school.

? How many bricks are needed to build the  33rd section?

