THE GREAT WALL CHALLENGE!

Book 4

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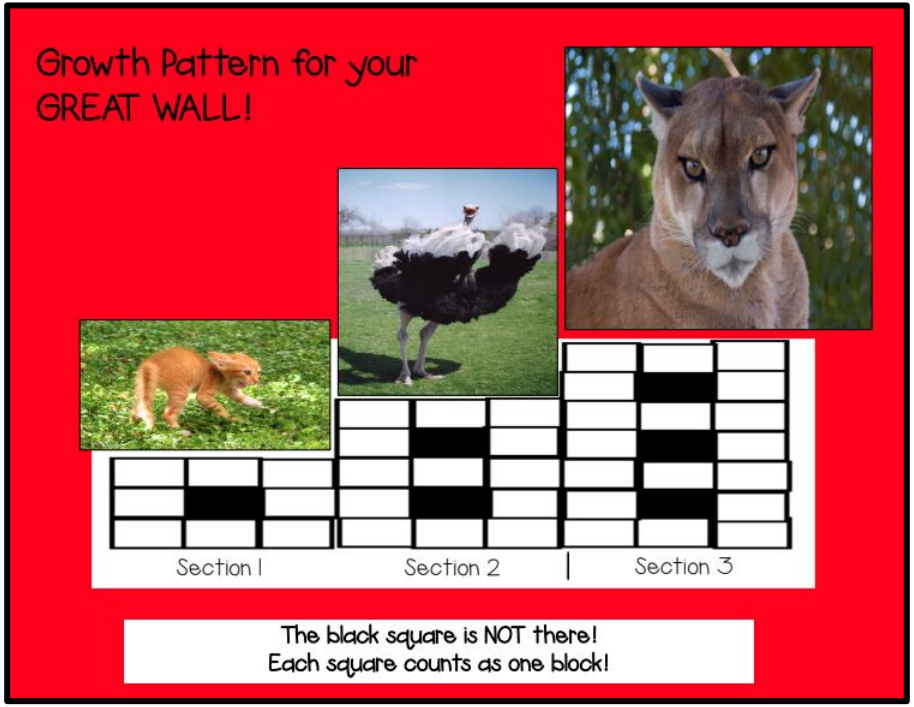

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Students Use Growth Patterns to Create Formulas and Solve for Variables!

Includes a Video Tutorial for Each Step of this Problem!

🐱🐦🦁 KILLER KITTENS, OUTRAGED OSTRICHES, AND MERCILESS MOUNTAIN LIONS ARE ATTACKING!

🔥 Will your math skills be enough to save your school? 🔥

Build the **GREAT WALL** and **protect the students!** 🏫🔐

🐱 **Killer kittens** arch their backs and hiss, scrambling toward your school in hopes of **scratching the studying students!**
🐦 **Outraged ostriches** flap their wings and sprint forward, eager to **race your fastest classmates**—but **they cheat!** They use their wings to **push opponents down** to win!
🦁 **Merciless mountain lions** leap from tree to tree, stealthily advancing toward the **unsuspecting kindergarten class!**

❗ **But that's not the worst of it**—more creatures are on their way! You have just been told that **72 different animals** are **racing toward your school, ready for destruction!**
🧱 **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!

🎥📝 On Your Own - Step A 💡🎥

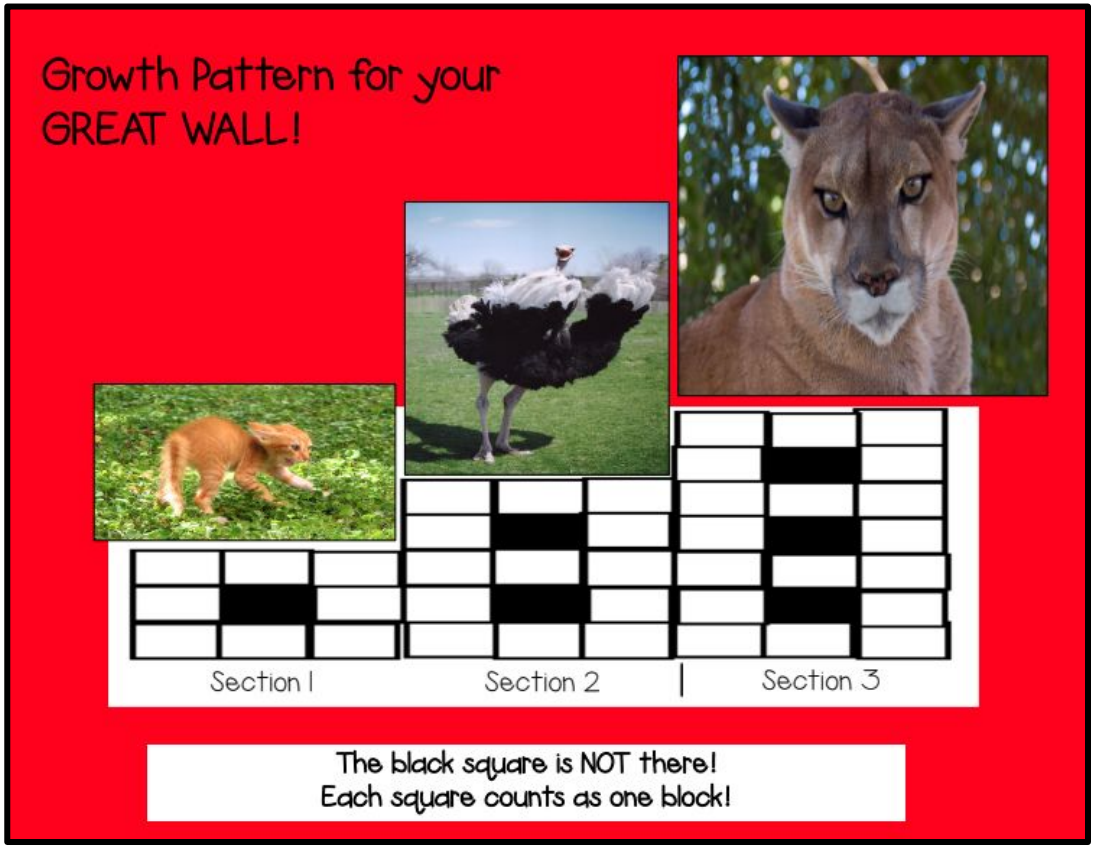
🔹 📝 On Your Own 💡🎥 🔹

✅✍️ **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.



🎥📝 On Your Own - Step B 💡🎥

🔹 📝 On Your Own 💡🎥 🔹

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▶️ 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 - Step C 💡🎥

🔹 📝 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! 🎥🐾

🚨 **<u>New Discovery!</u>** 🚨

👩‍🔬 Your **school scientists** have just discovered **more animals!** There are **72 different types of animals attacking your school**.

❓ **How many bricks are needed to build the 🏗️ 72nd section**?