



Steve's Chestful Challenge



COMPLETE TO COLLECT

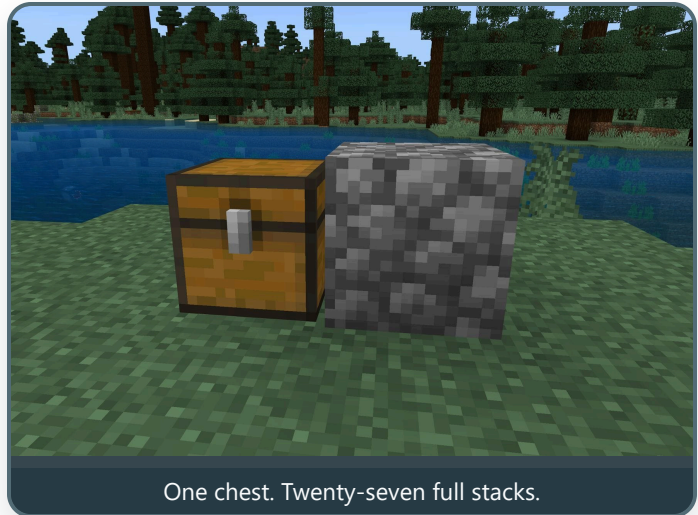
Marble Tablet

Level 3 · 5 Glints

A REAL BEDROCK EDITION TARGET

Steve is going for the Bedrock Edition **Chestful of Cobblestone** achievement. It asks a player to mine cobblestone and put a chestful of it in a chest.

Steve wants to know how many blocks fill **one single chest**. It has **27 slots**, and every full cobblestone stack contains **64 blocks**.



One chest. Twenty-seven full stacks.

FILL THE CHEST

Each square below is one chest slot.
Every slot holds one full stack of 64.

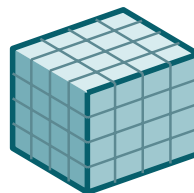
27 slots × **64 blocks** = _____ **blocks**



STEVE NOTICES A CUBE HIDING IN THE CHEST

One stack of 64 cobblestone can form a solid **4 × 4 × 4 cube**. The chest holds 27 of those stack-cubes.

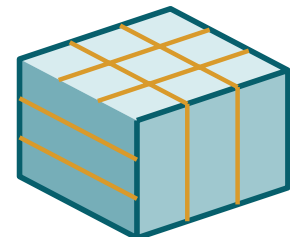
Steve arranges the 27 stack-cubes in a **3 × 3 × 3 array**. He claims they make one solid **12 × 12 × 12 cube** with no blocks left over.



1 stack

$$4 \times 4 \times 4 = 64$$

× **27**



27 stack-cubes

3 along each direction

One chest. Two volume models. Then Steve builds with the result.



YOUR CHEST TOTAL

Page 1: _____ blocks

STACK-CUBE

$$4 \times 4 \times 4$$

STEVE'S CLAIM

$$12 \times 12 \times 12$$

PROVE IT, THEN BUILD

Record answers here. Use scratch paper for calculations.

- Is Steve's solid-cube claim correct? Find the cube's volume, then compare it with your chest total from page 1.

CUBE ROUTE

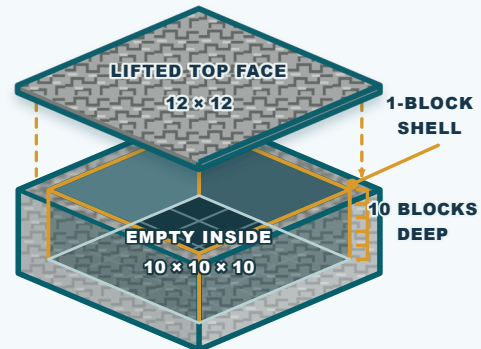
$$12 \times 12 \times 12 = \underline{\hspace{2cm}}$$

Steve is ☐ correct or ☐ not correct

Explain how arranging 27 cubes that are each 4 blocks long, 4 blocks wide, and 4 blocks high creates the side length Steve claims.

- After filling the chest, Steve uses its cobblestone to build a **closed, one-block-thick hollow vault**. The outside is $12 \times 12 \times 12$, and the empty inside is $10 \times 10 \times 10$.

How many cobblestone blocks does the vault use? How many are left?



Exact-scale cutaway: front walls are faded so the 10-block depth is visible. Build all six faces.

Outer volume	Empty inner volume	Vault uses	Blocks left

- Pack the leftover cobblestone back into stacks of 64. How many **full stacks** are there, and how many **extra blocks**?

Full stacks

Extra blocks

Calculation:

