

Mathematics

# Counting cubes 2

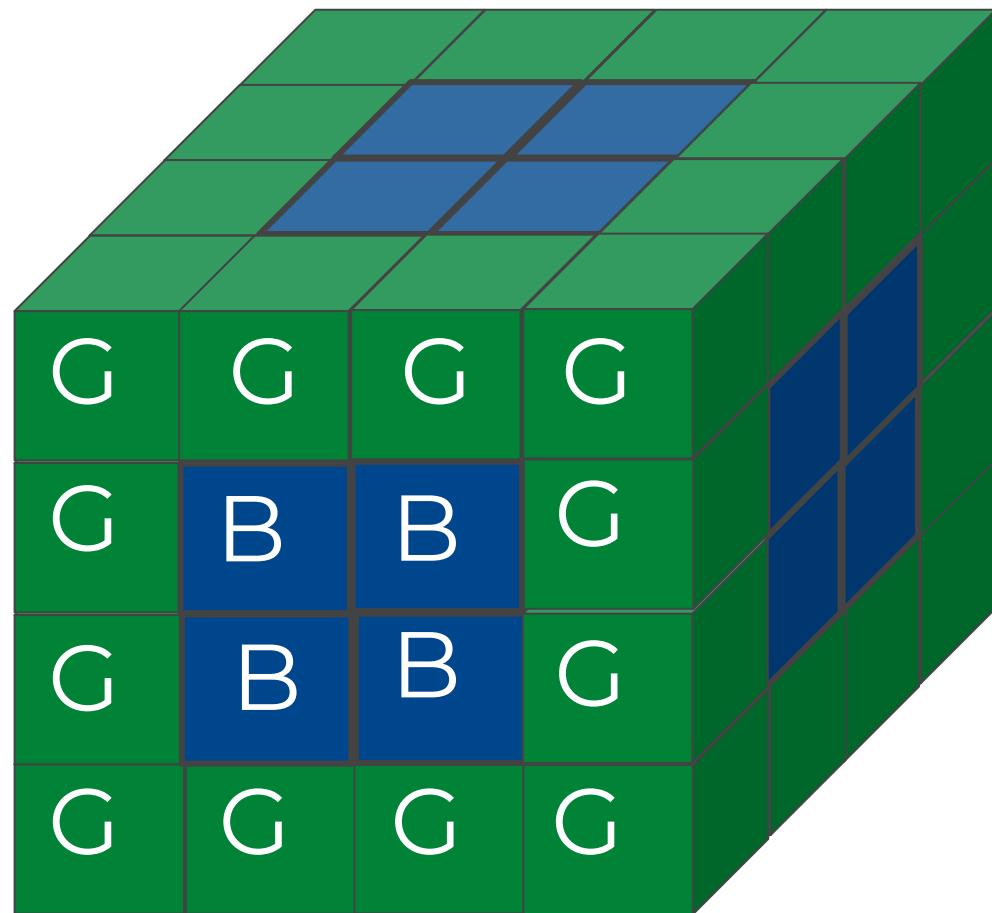
## Downloadable Resource

Mrs Buckmire

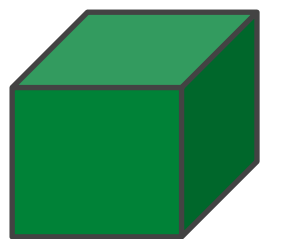
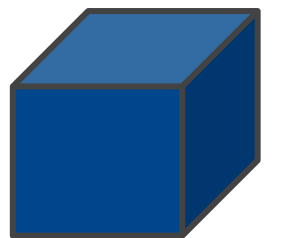


## Try this

Yasmin has built this cube out of smaller green and blue cubes.



- How many blue cubes could there be?
- What if the cube is the same on all sides and the inside is hollow?
- What if the cube is the same on all sides and the inside is full of blue cubes?

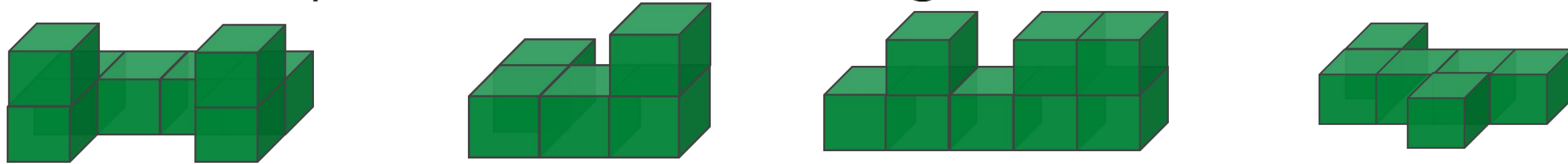


Return to the video once completed

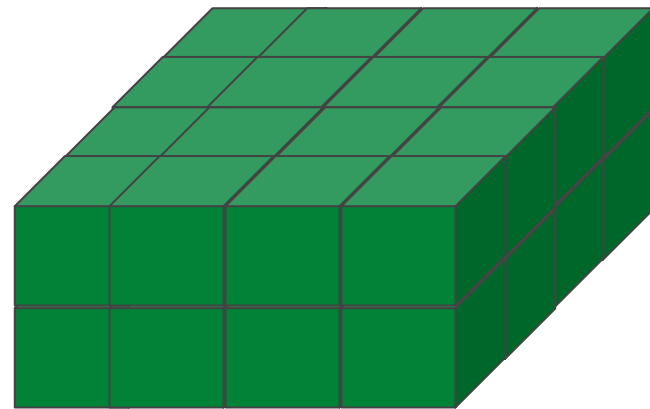


# Independent task

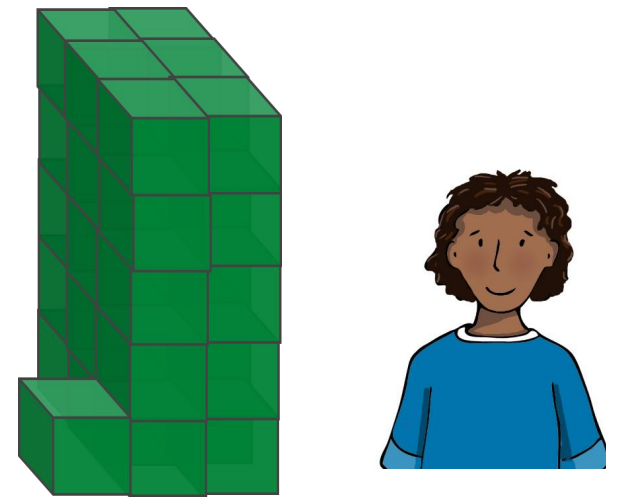
1. Order these shapes from lowest to highest volume



2. What is the volume of this cuboid?



3. Zaki thinks his shape has a greater volume than the one in question 2 because it is taller. Do you agree?



4. How many different cuboids can you make with a volume of  $12 \text{ cm}^3$ ?

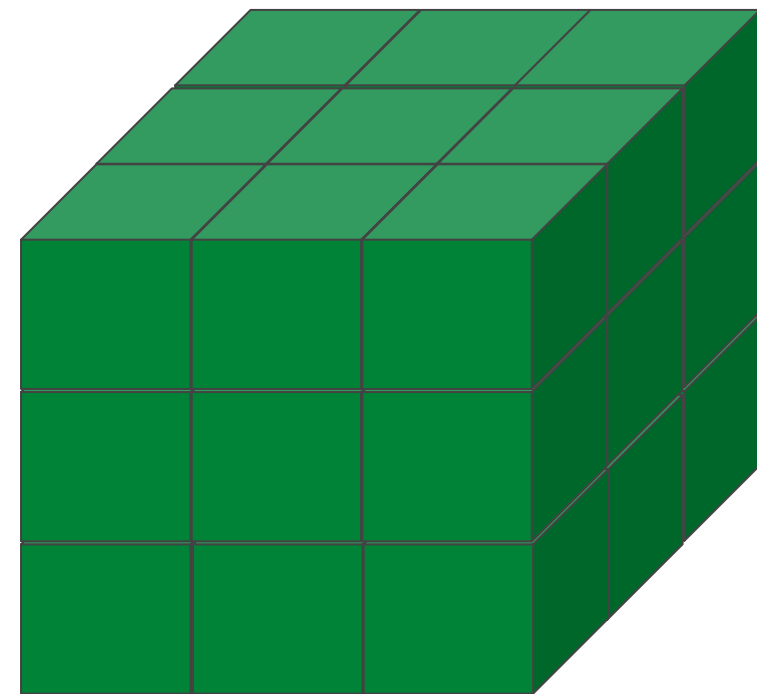
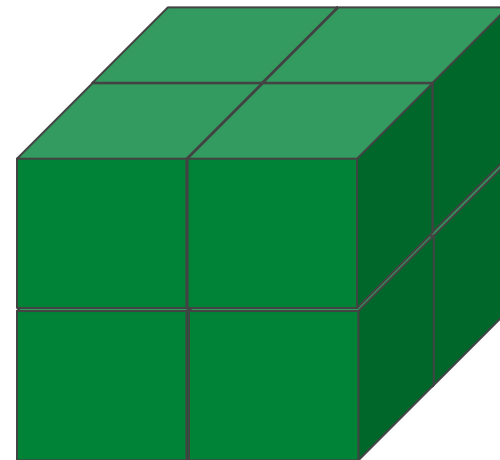
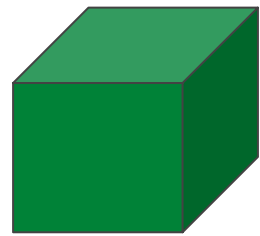
Return to the video once completed



# Explore

Find the volume of these cubes.

What comes next in this pattern?



How many cubes are in the 10<sup>th</sup> shape in this pattern?

Return to the video once completed

