



Case 1



Case 2



Case 3



Case 4

Task Instruction

Imagine that we paint a $4 \times 4 \times 4$ cube blue on every side.

How many of the small cubes have 3 blue faces?

How many have 2 blue faces?

How many have 1 blue face?

How many have not been painted at all?

How many faces would be painted in a cube of any size? Think visually!