

Painted Cube Problem

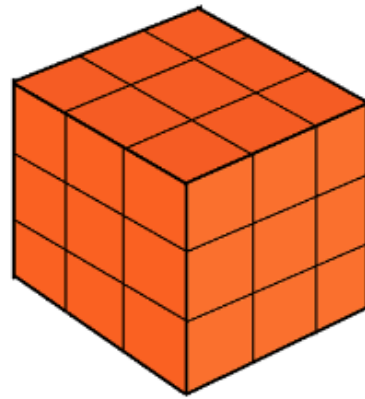


Painted Cube

Imagine a large cube made up from 27 small blue cubes.

Imagine dipping the large cube into a pot of orange paint so the whole outer surface is covered, and then breaking the cube into its small cubes.

What colours will the faces of the 27 small cubes be now?



Thousands more problems can be found on the NRICH Maths website:

<http://nrich.maths.org>