

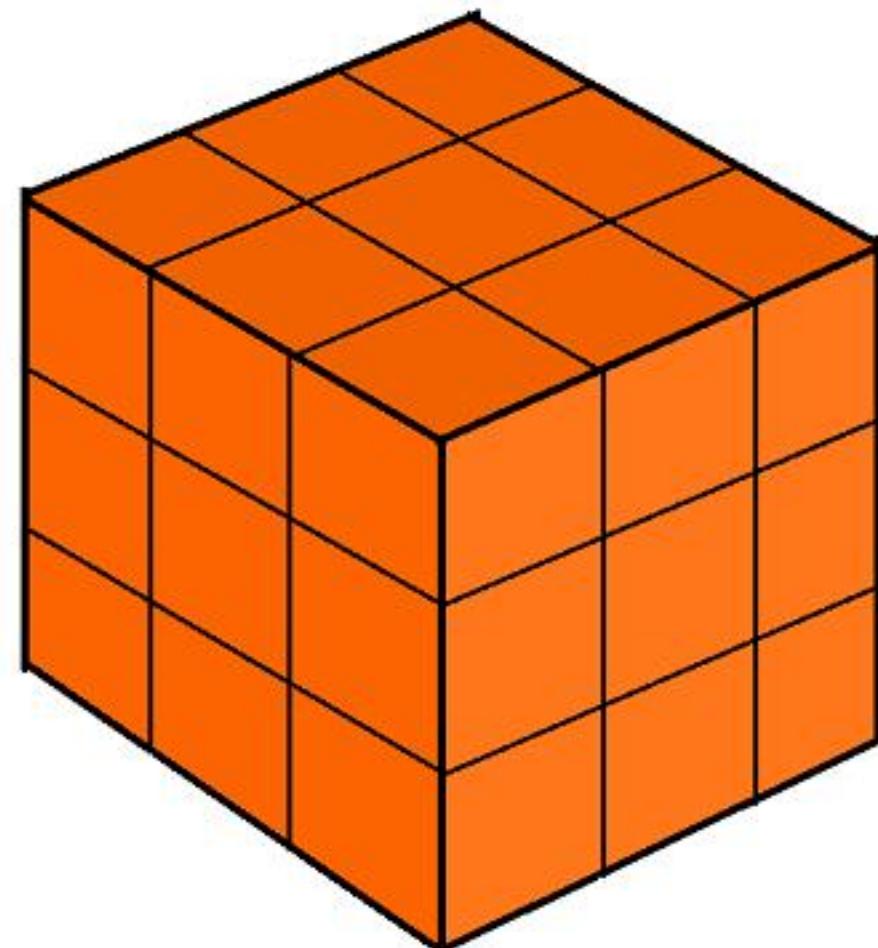


# Painted Cube

**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>