

Senior Questions

Consider an equilateral triangular hole, and the piece that fits into it. The *symmetry group* of an equilateral triangle is made up of the operations you can do to the piece so that it still fits in its hole. For instance, you can rotate it by 60° .

1. There are 6 operations in total, list them.
2. By labelling the corners of the triangle show that these operations don't necessarily