

Cutting a Cube

Level D

We want to find all the nets that can be folded into a cube. For this investigation, we will define two nets as being the same if we can turn (rotate), move (translate), or flip (reflect) the net and the two nets cover each other exactly.

How many unique nets fold into a cube? Draw all possible nets that can be folded into a cube.

How did you go about determining the number of nets?

How do you know that you have found all the unique nets that fold into a cube?

Convince a skeptic that you have found all the possible nets of a cube.

