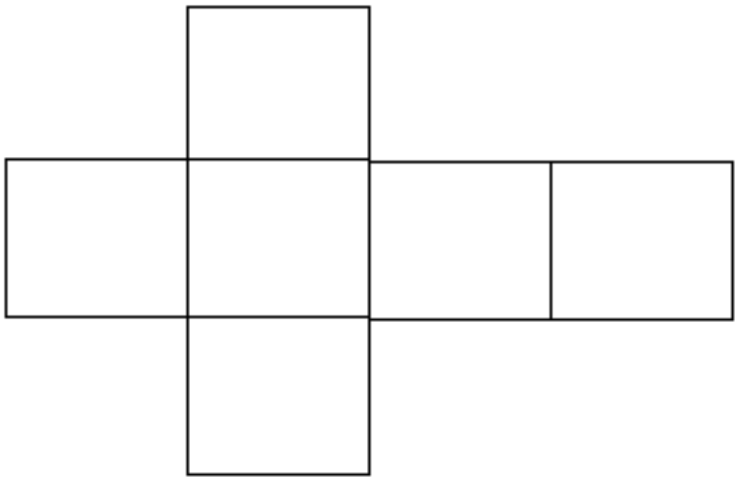
SHQ: How many different ways can a cube be made from a net?

In our last lesson, we look at nets and how they could be turned into 3D shapes. This lesson focuses on the net of a cube. Remember we asked you to keep the nets that you made in the last lesson? You will need these here to help answer the Power Maths questions.

Firstly, watch the short video which shows clearly how a cube can be made from different nets, but that some arrangements do not work:

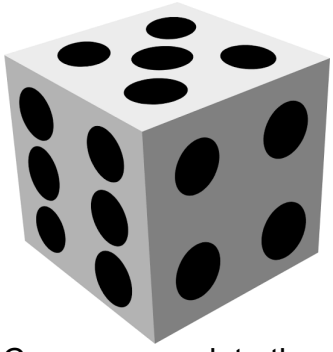
https://www.youtube.com/watch?v=vQa3kP2FE4g

Now have a look at the net below:



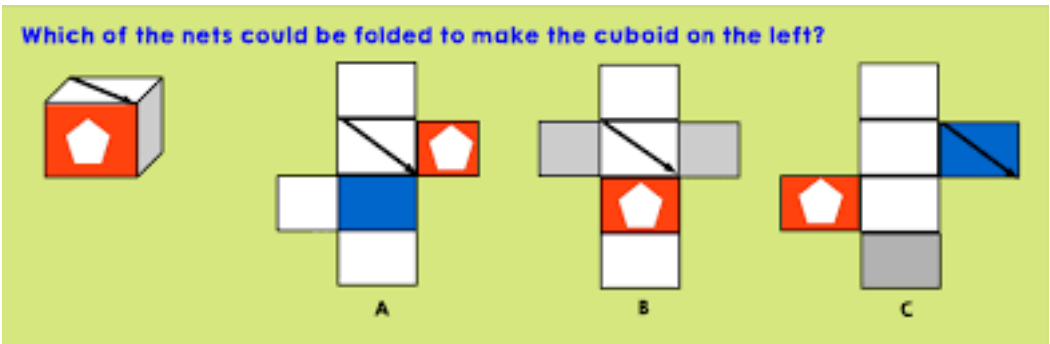
This net would make a cube.

Here is a cube that you will have seen on many occasions:



Can you complete the net by adding the 'spots' in the right place? What do you know about the sum of the spots on opposite faces on a die?

Here's a challenge for you to think about: Try cutting out the nets, or making bigger versions of them using the template about if it helps, to work out which net will make the cube on the left.



Now it's your turn: Using this information, work through the questions on the Power Maths resource for Worksheet 9. There are taken from Power Maths Geometry Unit 13, Lesson 12. Answers are included in 'Week 7 Maths Answers'.