

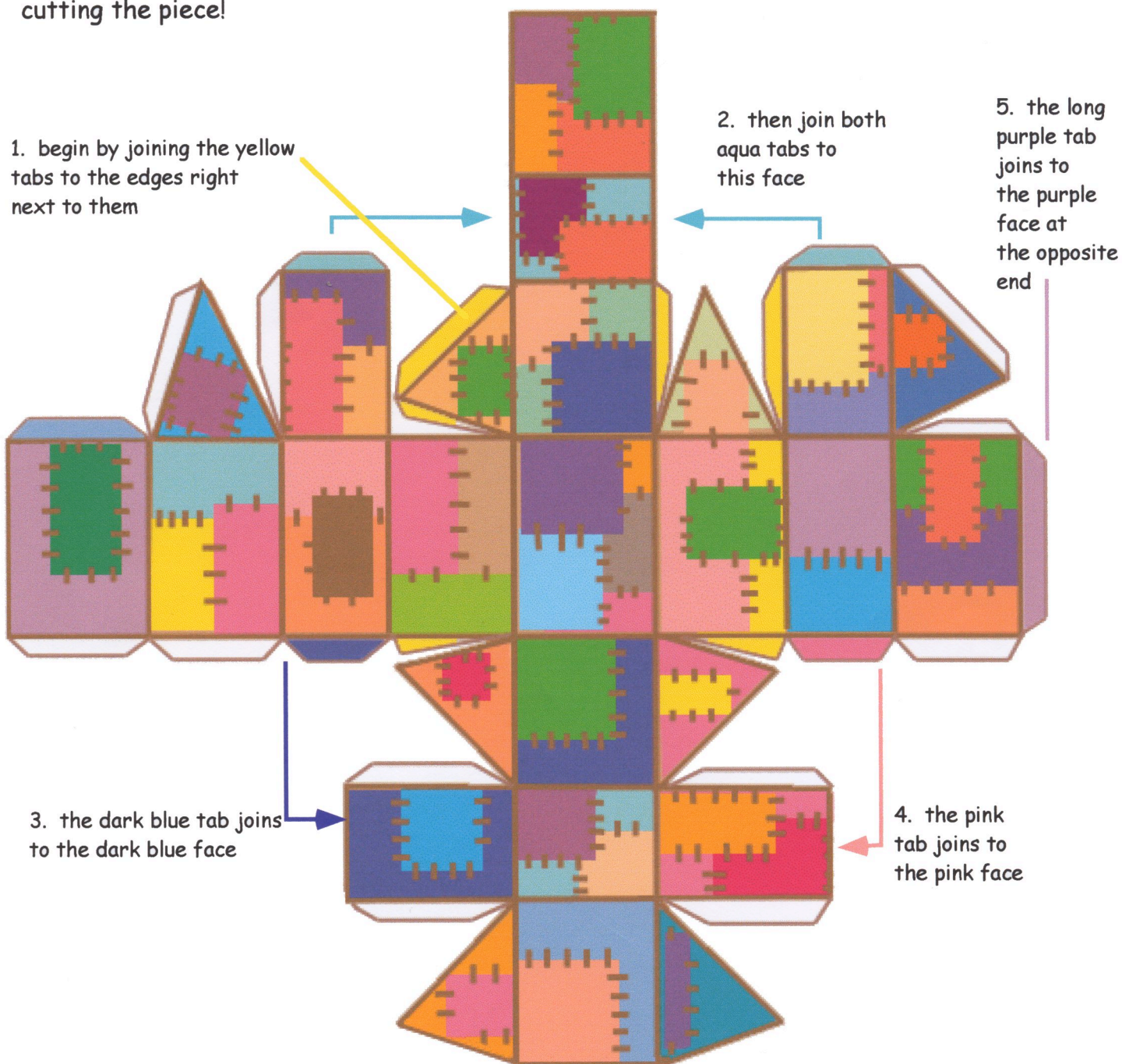
# Patches the Cat

a print-and-build paper sculpture kit

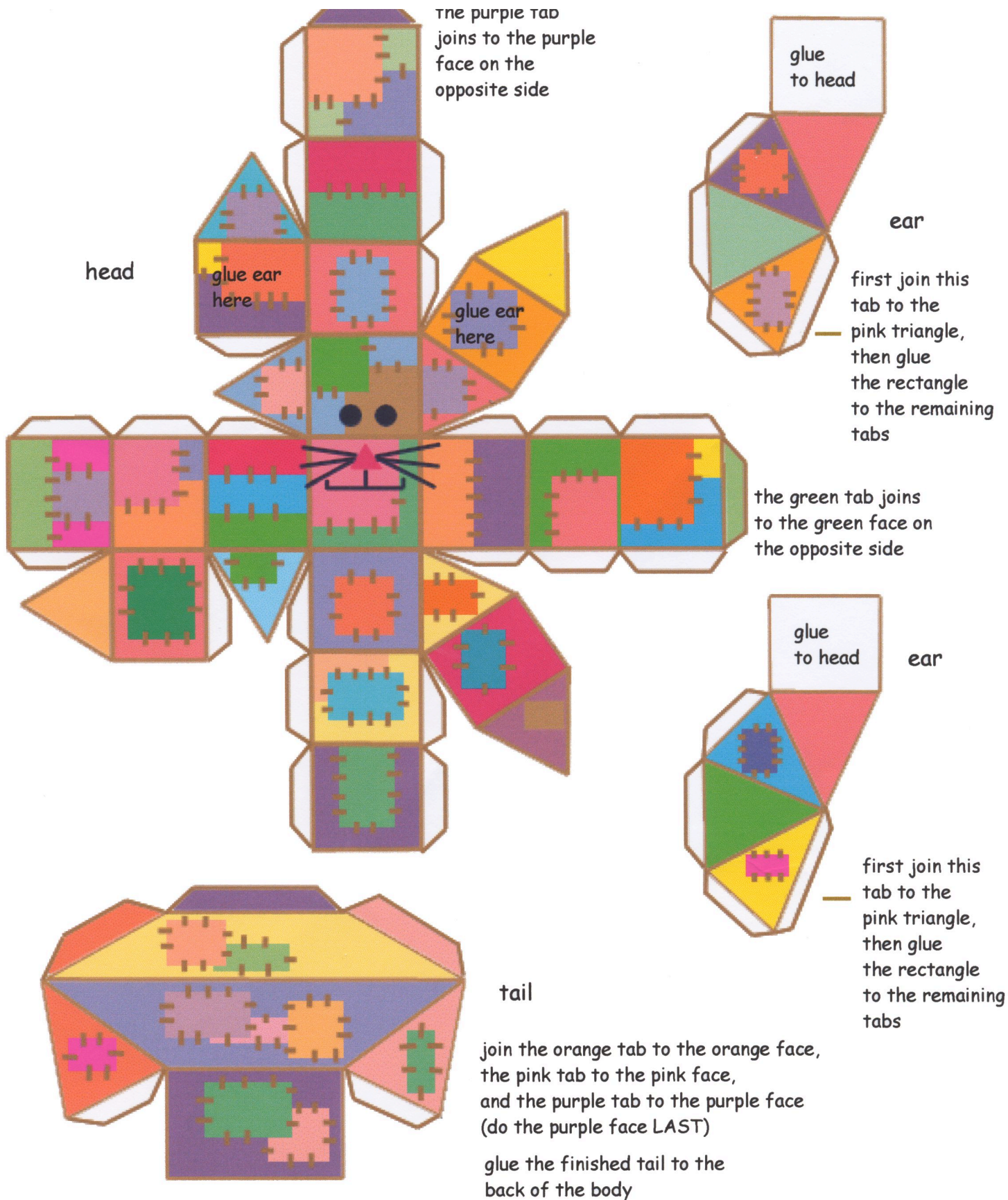


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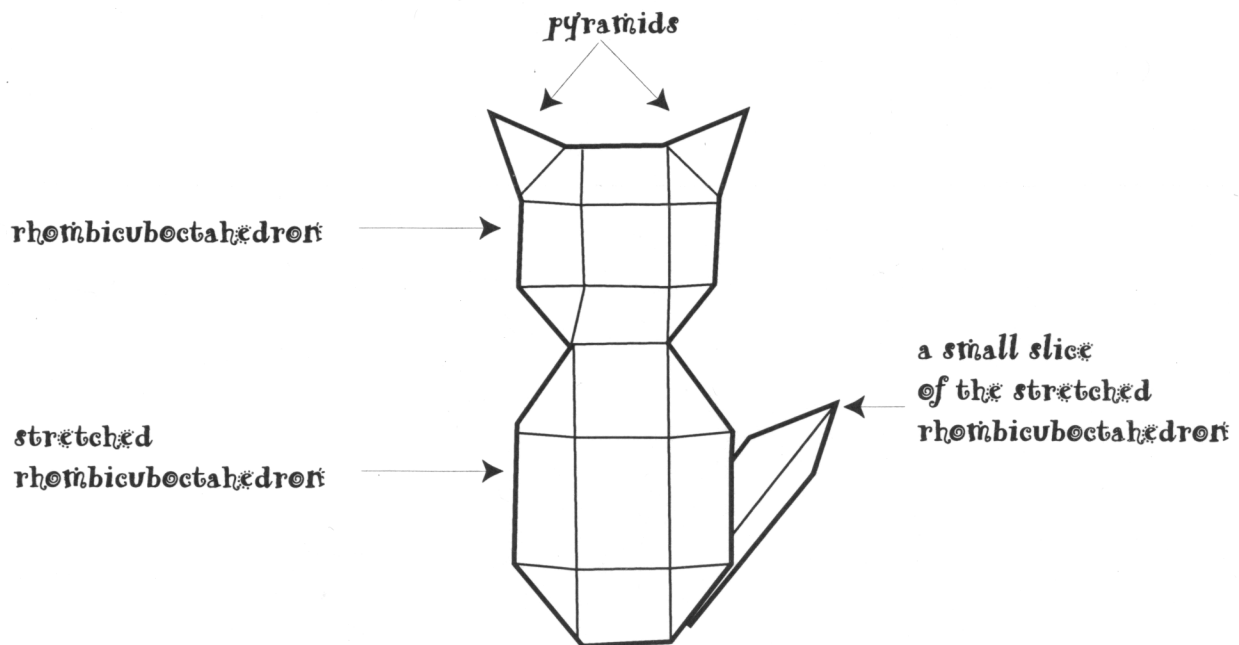
Here's the body of Patches the Cat.  
We've included a few tips to get  
you started. Read the tips before  
cutting the piece!







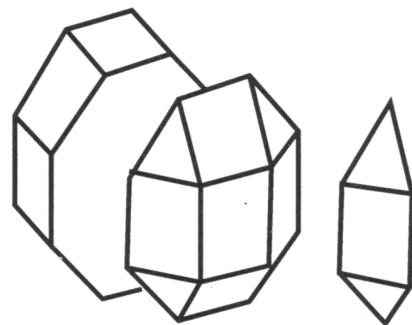
# Paper Cat Geometry



Patches the Cat is a mathematical creature ... his head is made from a polyhedron called the rhombicuboctahedron (pronounced RHOM-BEE-CUBE-OCTA-HEE-DRON). This polyhedron is made of squares and equilateral triangles.

His body is the same shape as his head, but the shape has been stretched out to make it longer. Notice how the squares have turned into rectangles and how the triangles no longer have sides that are the same length. Patches' ears are pyramids.

The cat's tail is made by slicing through part of the same shape as the body. Can you see how we got the shape?



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