RAM MATHS CIRCLE - BANGALORE

Session 6

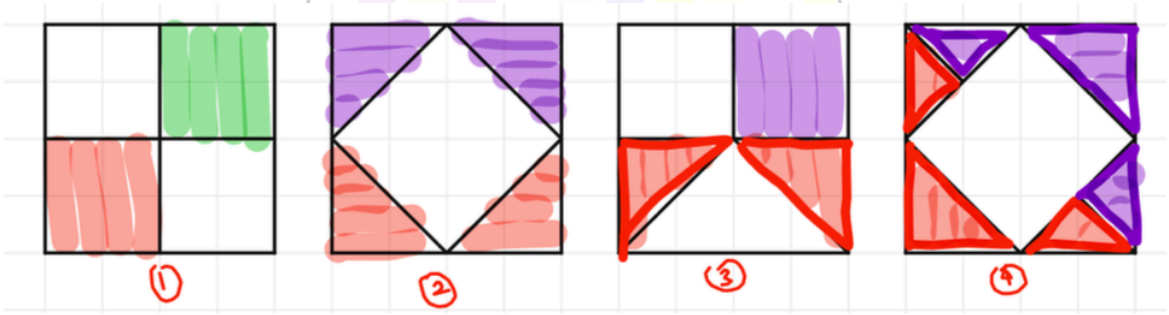
Agastya Gurukulam **September 27th, 2026**

Shaded regions by Paper Folding

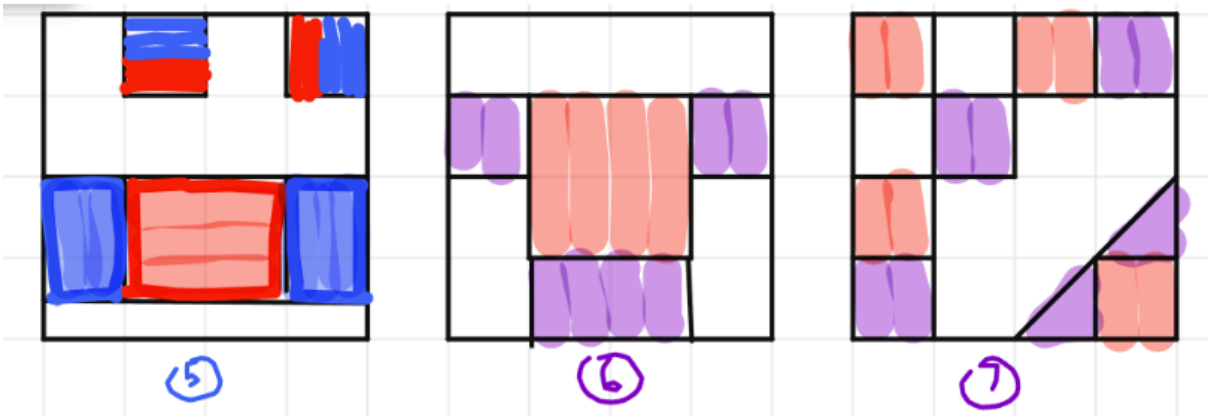
We start with a square sheet of paper with some regions of two different colours, say blue and red. Our challenge is to fold the sheet in such a way that in the end, one side is blue, and the other side is red.

- We can only fold the sheet. We cannot cut or alter the sheet in any way.
- In the final state, the two faces should be completely coloured. No part can be uncoloured or have a different colour.
- In the final state, all the coloured regions should be on one of the outward faces. That means, parts of coloured regions cannot be tucked inside.

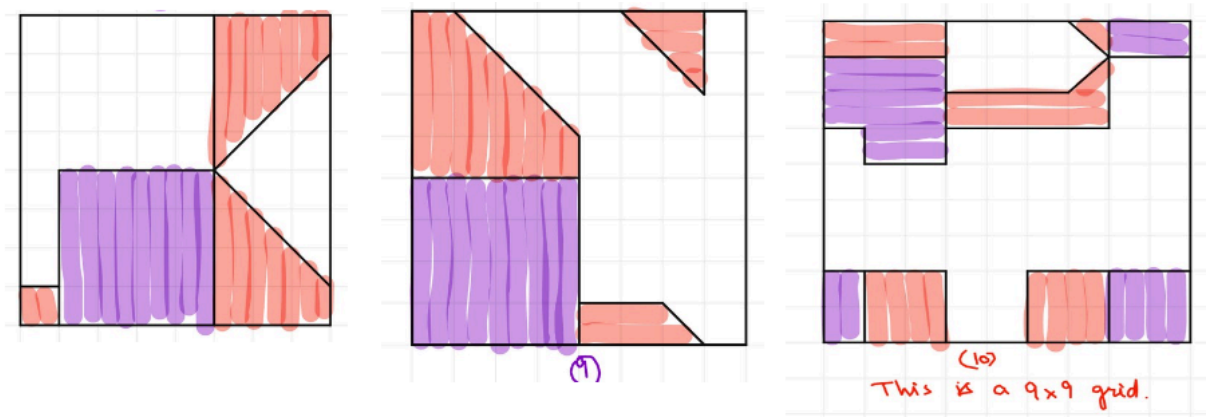
Challenge 1: Find a way to fold starting from these coloured regions.



Challenge 2:



Challenge 3:



Challenge 4: Create your own design and challenge others.

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