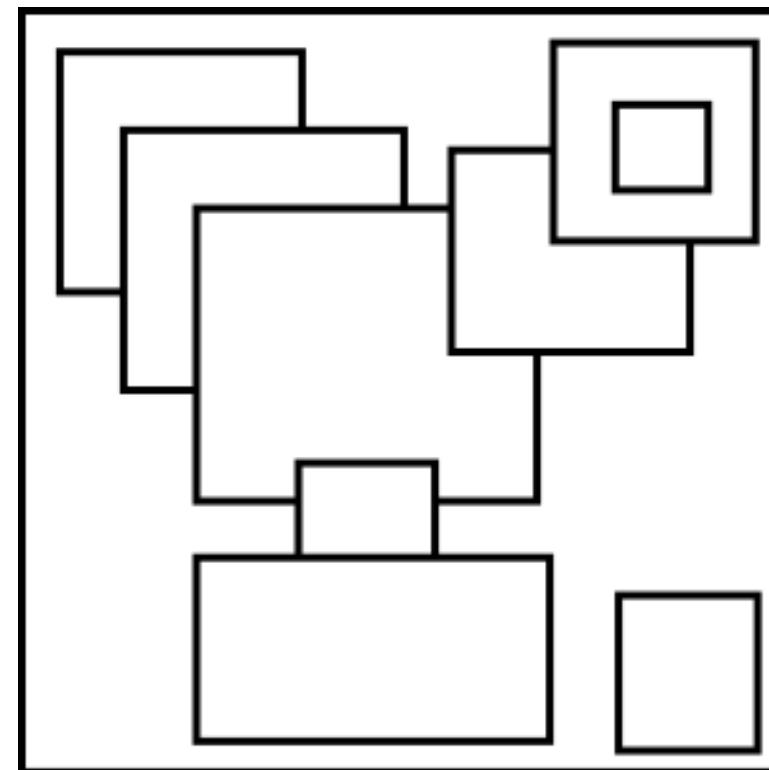
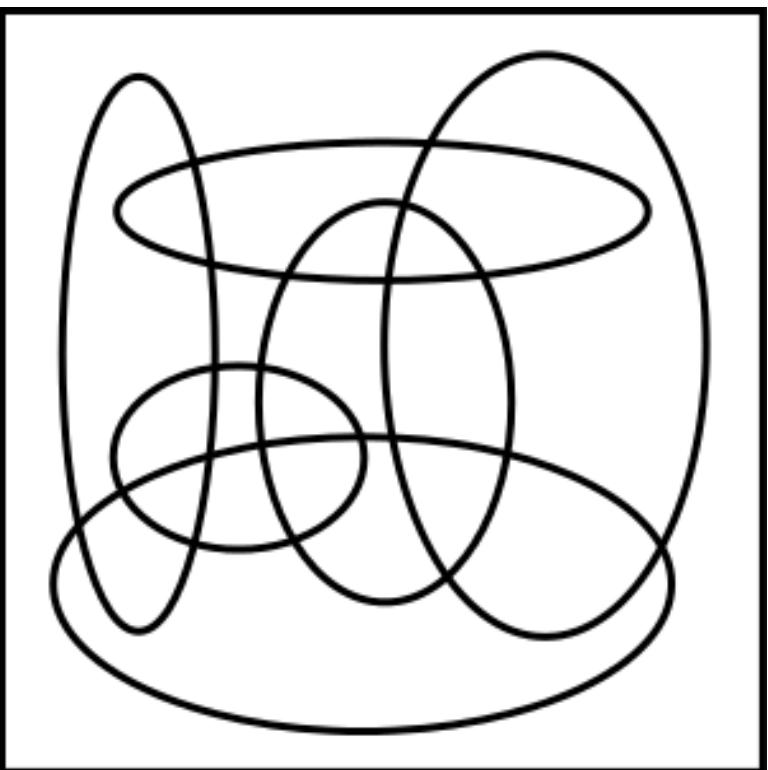




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Specialists in rich mathematics

Painting by Numbers

What is the smallest number of colours needed to colour these pictures according to the rules below?



- **No two regions of the same colour can share a border**
- **Two regions of the same colour are allowed to meet at a point**

Thousands more problems can be found on
the NRICH maths website:

<http://nrich.maths.org>