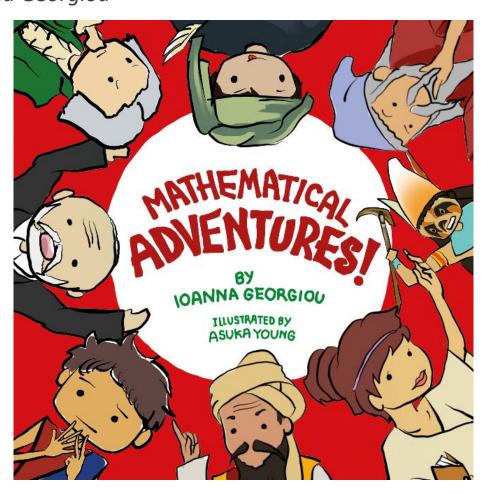
Maths, Maps and Adventures Workshop With Ioanna Georgiou



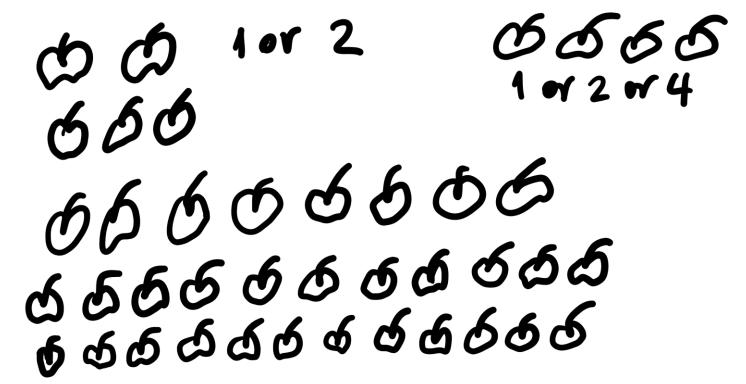
How did maths start?

Write down a few uses early humans could have that you can think of.

What patterns can we observe in the world around us that would be the same thousands of years ago?

Which numbers are the easiest to share? Try out with the groups of apples below!

You can then try drawing your own apples and see how many people you can share them with.



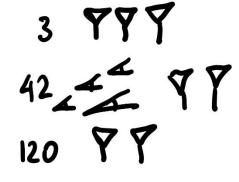
Number Systems

Check out these number systems and write out your age and your favourite number in all three!

Babylonian







Age:	
Favourite number:	

Mayan



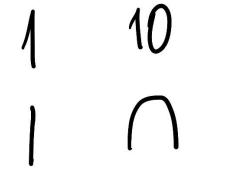
e.g

13



Age:	
Favourite number:	

Egyptian



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<u> </u>	

e.g.	104	1119

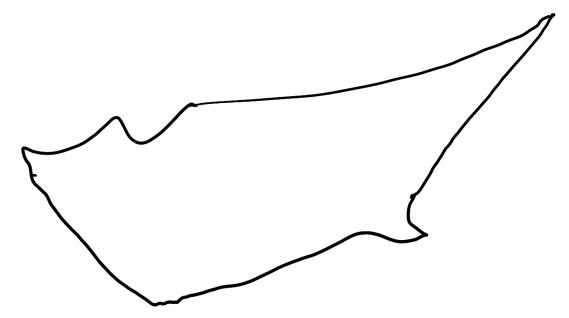
Age:	
Favourite number:	

How many colours do you need to colour a map?

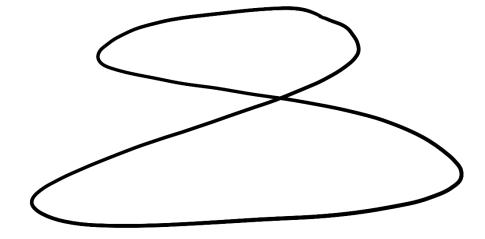
Try these with **as few colours as possible**. The rules are: you cannot colour two bordering areas with the same colour. Just like in a real map you need to be able to tell the countries apart!

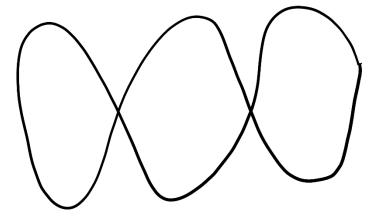
When the picture is more complicated, I give you lots of copies of the same one, so you can try again if it does not work the first time round!

How many colours do you need for this? Colour it in!

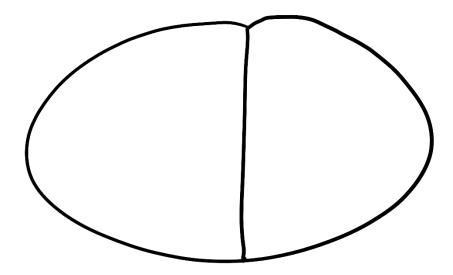


How many colours do you need for this? Colour it in!

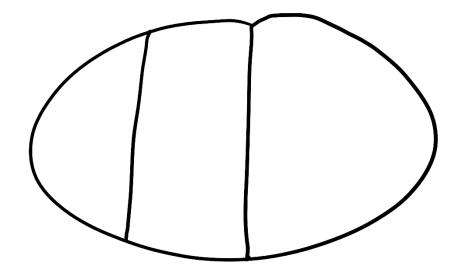


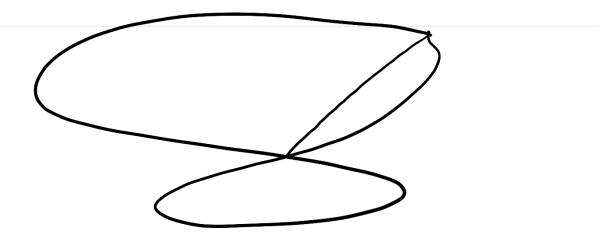


How many colours do you need for this? Colour it in!

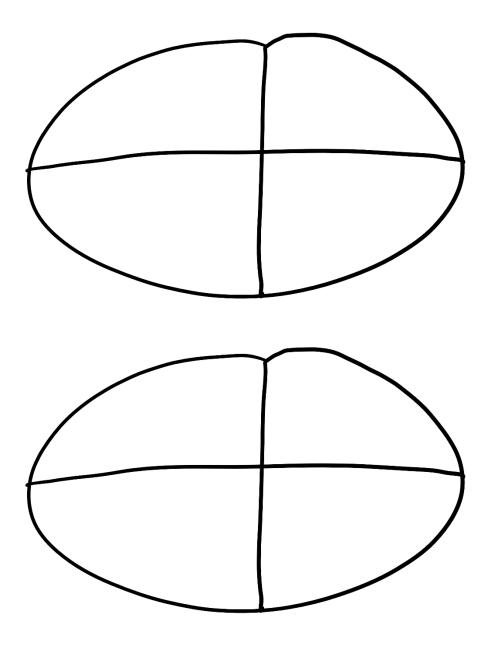


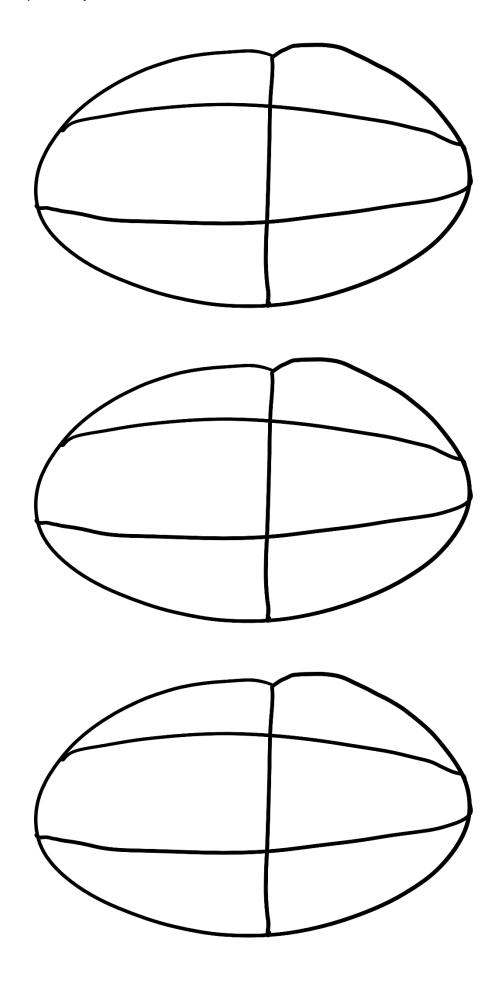
How many colours do you need for this? Colour it in!

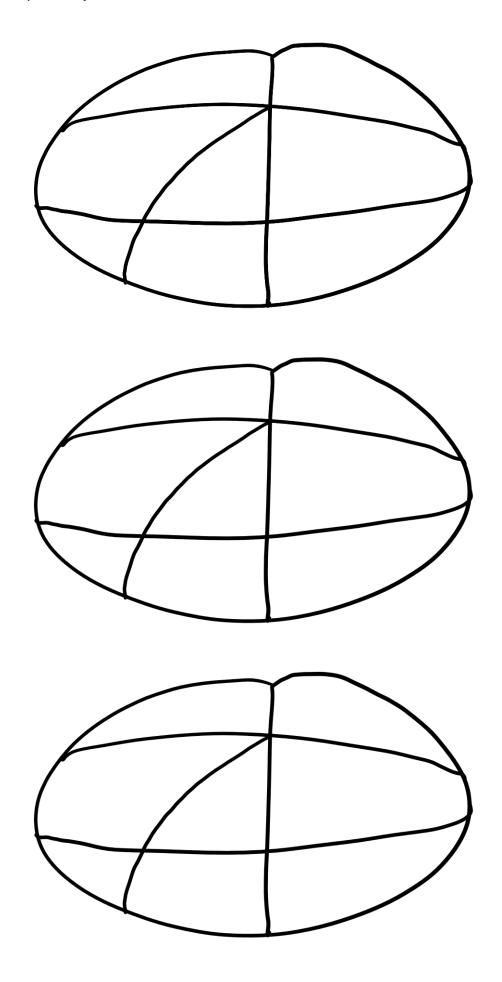


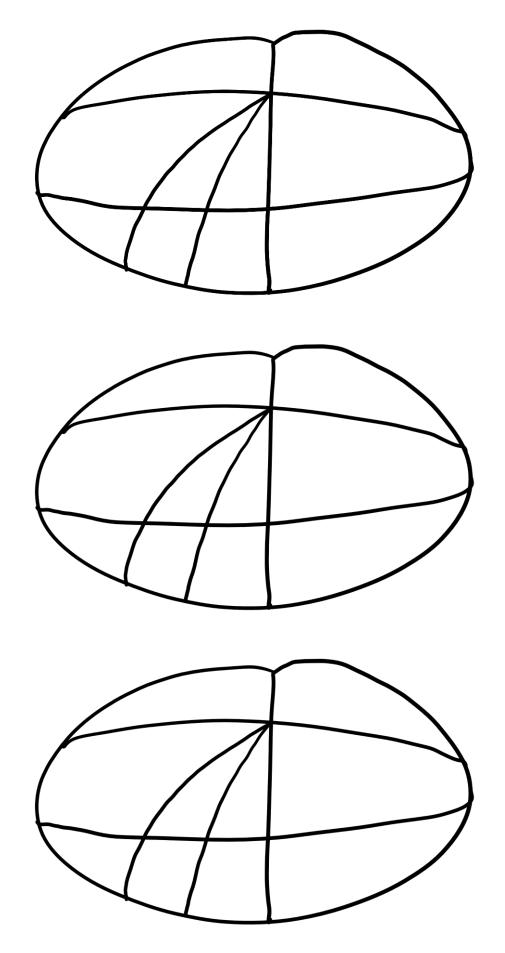


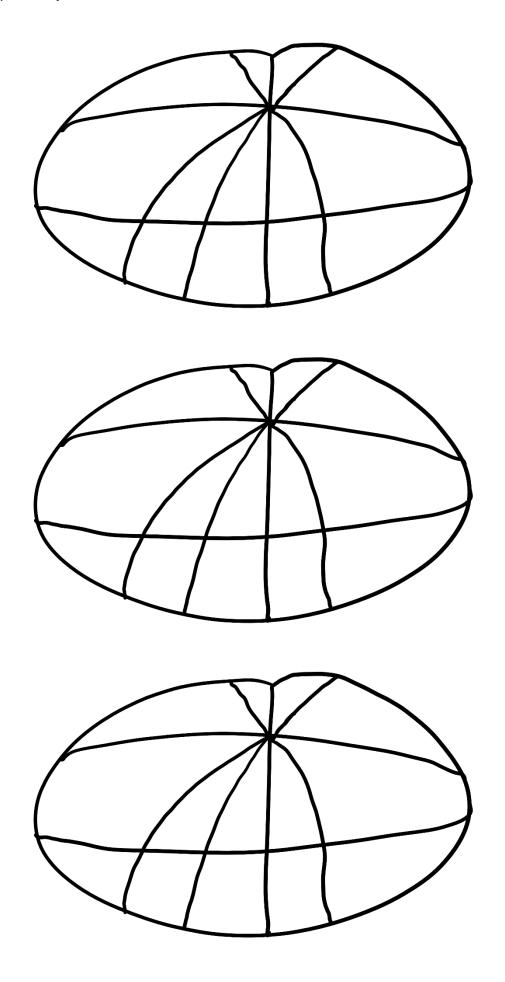
How many colours do you need for this? Colour it in!

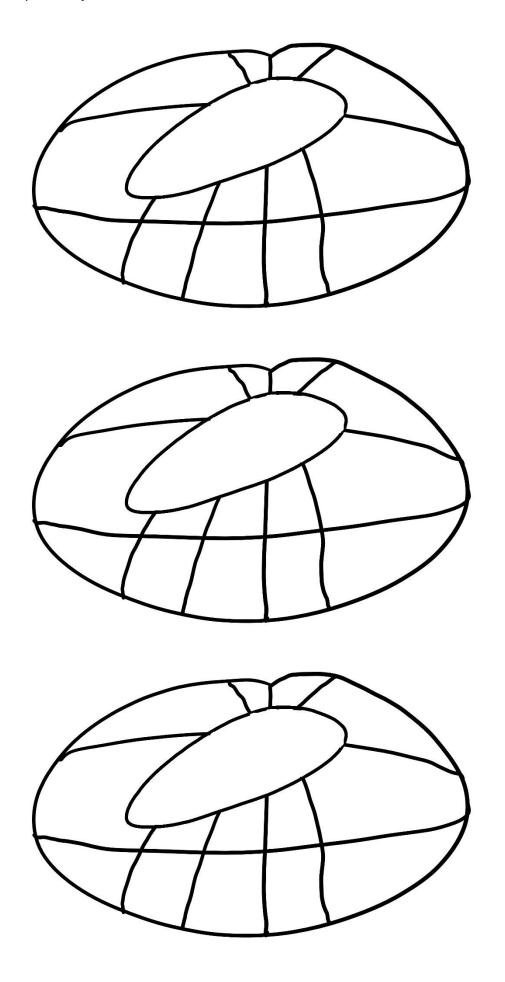


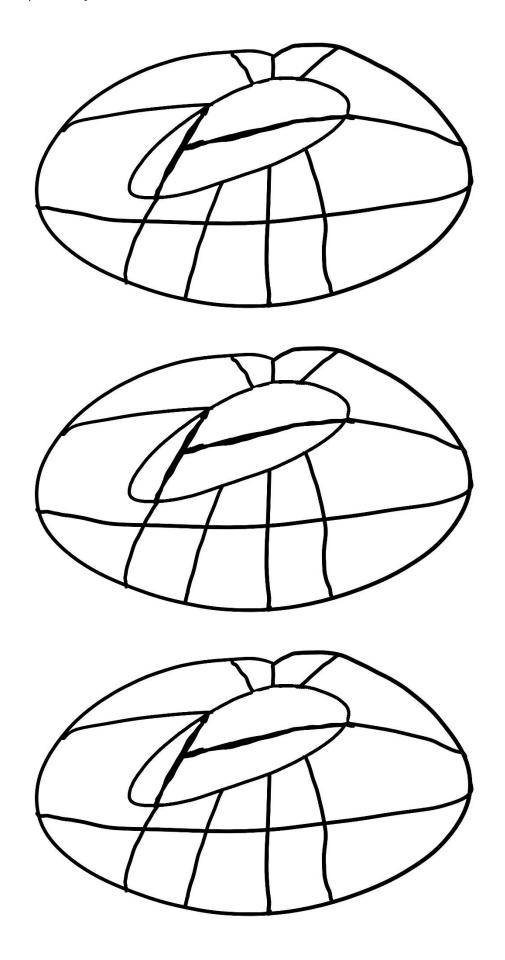


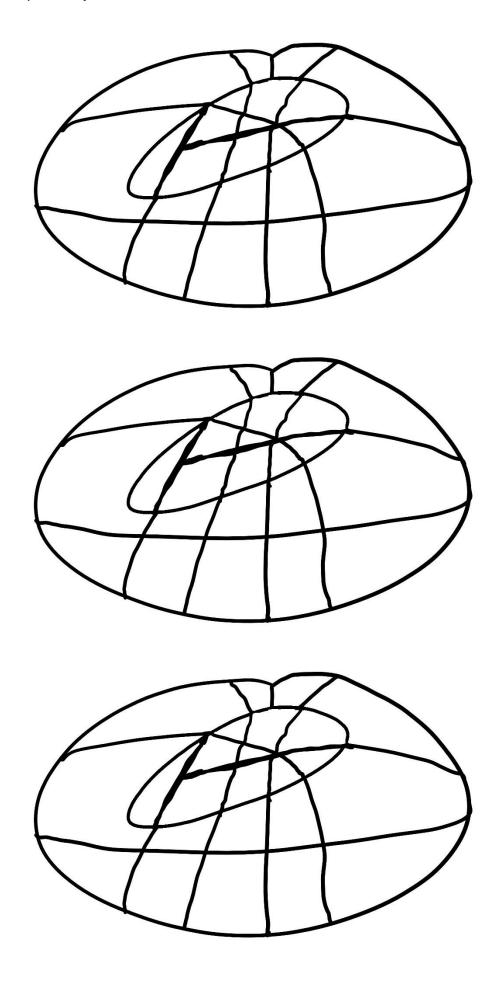


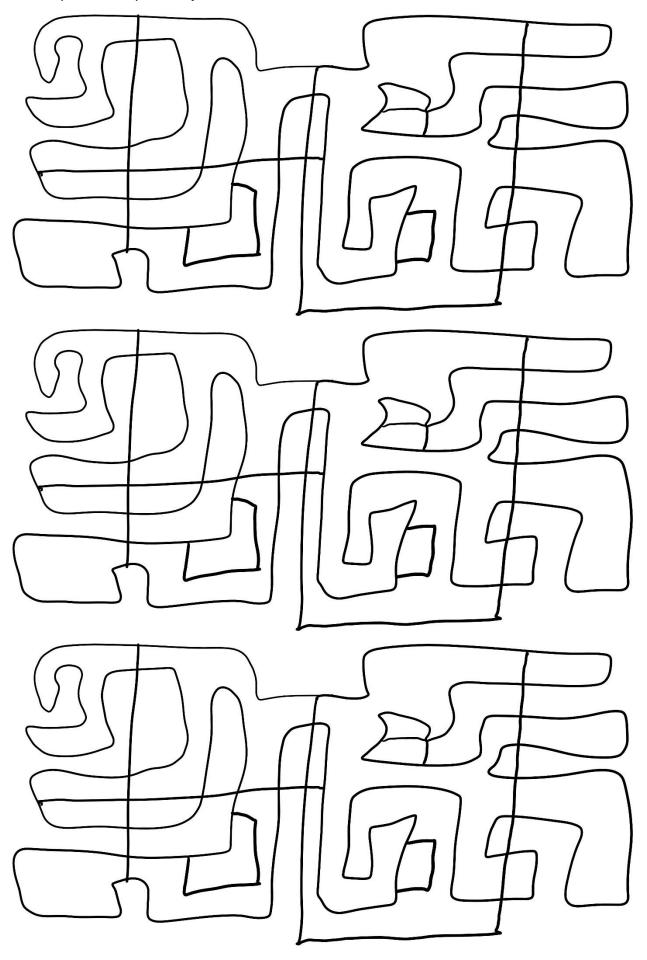


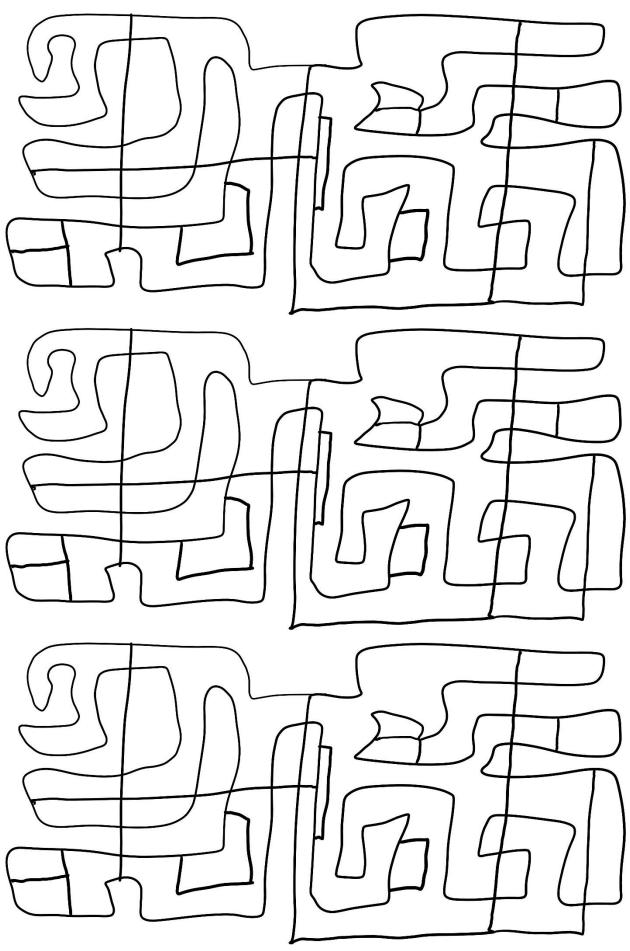


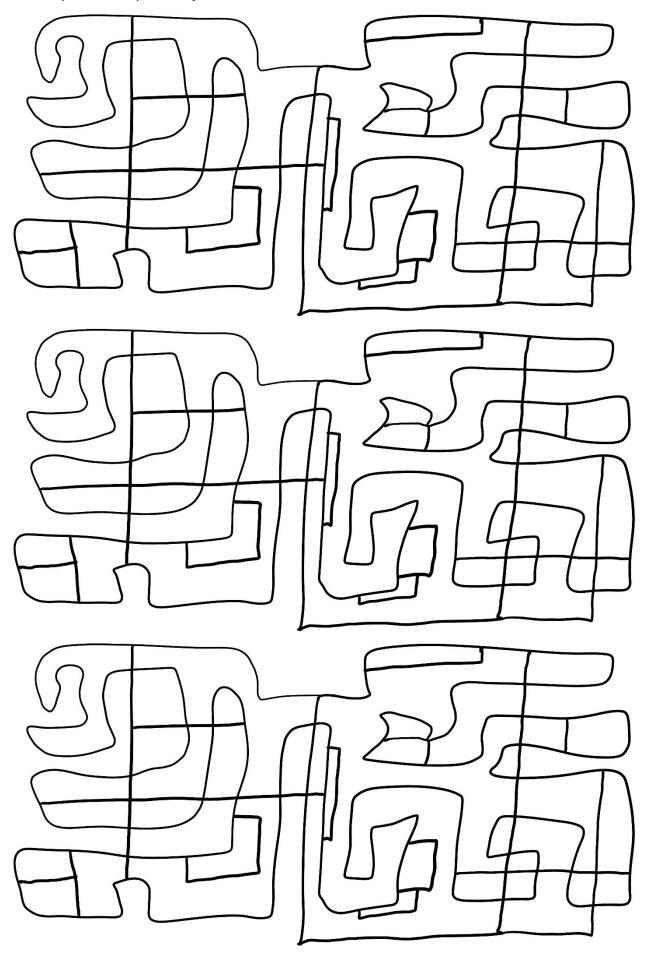


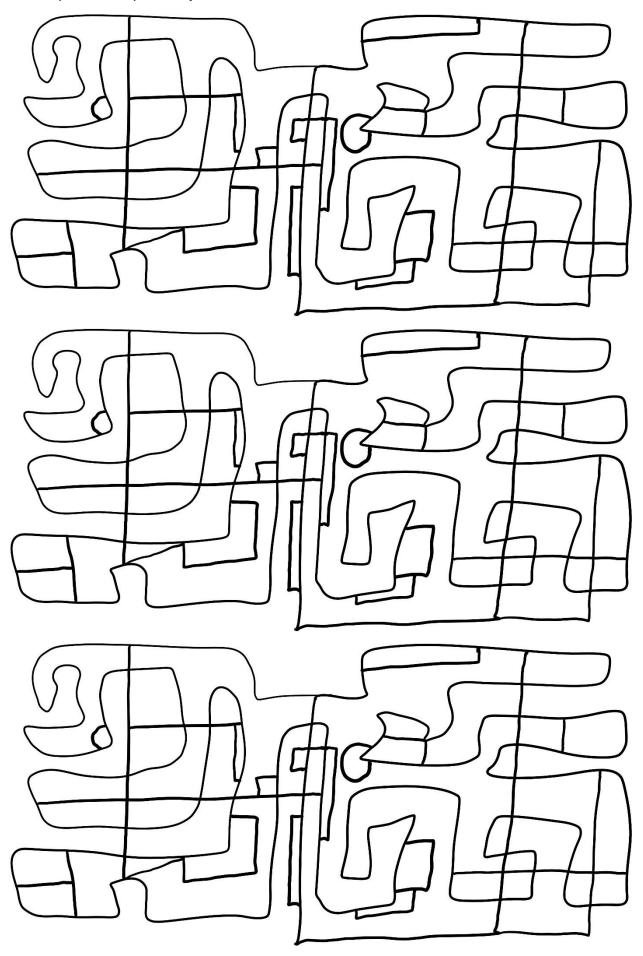












Let's now try to put this into a mathematical conclusion!				
What is the minimum number of colours we need to colour in any map?				
What about the ocean?				