Mathematics

The four colour map theorem A long-standing mathematical problem Downloadable resource

Miss Kidd-Rossiter



Try this



Credit: wikimedia commons

Binh needs to use?

Can you find another map?

countries/states, etc. here?

Binh is colouring this map of the United States. She applies the below condition.



- What is the minimum amount of colours
- How many colours are needed to colour



Connect

To prove this, you need to :

- show that all maps in existence only need four or less colours, or;
- find one map that needs five or more colours.









Independent task

- Draw a network to show Country A bordering: 1.
 - a. No other countries;
 - **b.** Two other countries;
 - **c.** Three other countries;
 - d. Four other countries;
 - e. Five other countries.
- Draw a network to represent a map of Great Britain and Northern Ireland. 2.
- What is the most complex (possible) network that you can come up that could represent 3. a map?



Explore

Antoni is thinking about the four colour map theorem.



