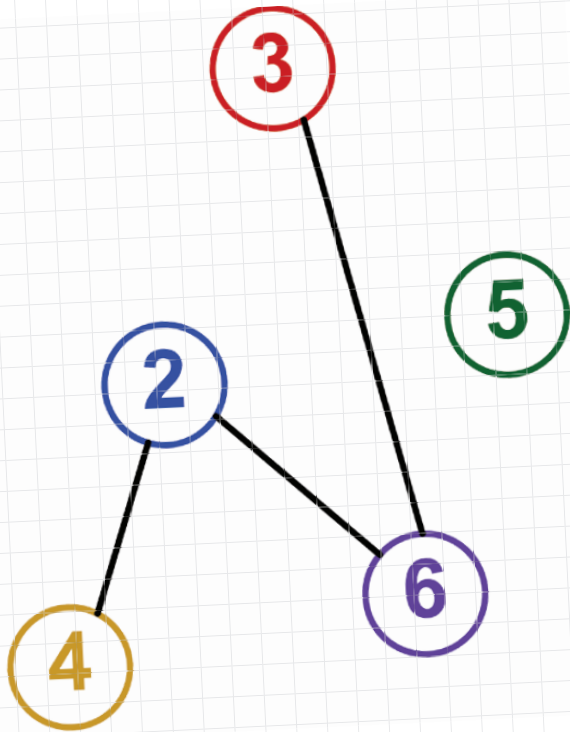


My favourite problem is... 



Starting with the number 2, integers are added, in order, so that any two numbers are joined if one of them is a factor of the other. The diagram shows the connections for the numbers 2 to 6.

What is the maximum number that can be reached if no lines joining two numbers are allowed to cross?

Based on a problem from NRICH

This problem is easy for anyone to start but gets increasingly complicated and requires a proof to know you have the best answer.