**Factors and Multiples Game**

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| Borrowed from nrich.maths.org |

This is a game for 2 players.  
  
The first player chooses a positive even number that is less than **50**, and crosses it out on the grid.  
  
The second player chooses a number to cross out. The number must be a factor **or** multiple of the first number.  
  
Players continue to take it in turns to cross out numbers, at each stage choosing a number that is a factor or multiple of the number just crossed out by the other player.

**The first person who is unable to cross out a number loses.**

How long a string can you make before you run out of options? Email your steps to your teacher.

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| **Review**  Factors: examples 8: (1, 2, 4, 8) 1x8, 2x4  24: (1, 2, 3, 4, 6, 8, 12, 24) 1x24, 2x12, 3x8, 4x6,  Multiples: examples 5: 5, 10, 15, 20, 25,…  9: 9, 18, 27, 36, 45,… |

