Factors and Multiples Game

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 <u>first number</u>.

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.

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,...

100-Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100