Factors and Multiples Game

You will need a 100 square grid.

Choose a number and cross it out on the grid.

Then choose a second number to cross out.
This number must be a factor or multiple of the first number.

Continue to cross out numbers, at each stage choosing a number that is a factor or multiple of the previous number that has just been crossed out.

Try to find the longest sequence of numbers that can be crossed out.

Each number can only appear once in a sequence.

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

N.B. You will need to keep a record of the order in which you have crossed out your chosen numbers.