Problem of the Week
Problem B and Solution
Amazing Grids

Problem

If possible, for each maze, find your way from the top left square to the bottom right square, moving only horizontally or vertically to achieve the set of numbers specified in the title.

Multiples of 4, in order

4	10	14	18	22	26	30	34	38	42
8	14	24	28	32	36	40	44	46	50
12	16	20	28	30	38	42	46	50	54
16	18	22	26	34	42	70	66	62	58
20	24	26	28	38	46	50	62	66	62
22	28	30	32	42	50	54	58	70	66
36	32	34	36	46	54	58	62	74	70
40	34	36	38	50	54	58	66	70	74
44	48	52	56	60	62	66	70	74	78
46	50	54	56	64	68	72	76	80	84

Multiples of 7, in order

7	14	21	27	34	41	48	55	62	69
14	20	28	33	40	47	54	61	70	76
21	27	35	42	49	54	61	68	77	83
28	35	40	47	56	61	63	75	84	90
34	41	47	50	63	68	75	82	90	97
41	48	54	58	70	77	84	89	97	104
49	55	61	65	72	79	91	96	104	111
56	62	68	72	79	86	98	103	111	118
63	69	75	82	89	96	105	112	119	125
70	76	83	89	96	103	110	117	126	133

Factors of 48, any order

48	2	4	12	24	48	3	8	6	10
1	9	13	15	20	40	13	22	14	12
24	12	6	4	1	2	16	18	22	24
5	8	10	14	18	22	26	20	28	16
6	3	14	7	1	4	3	15	20	10
10	16	22	5	20	2	28	18	16	14
8	12	26	9	13	6	3	8	22	24
14	2	4	13	20	1	17	24	3	5
16	7	6	1	4	12	14	26	22	1
8	4	20	5	18	24	2	6	8	3

Composite numbers

45	1	41	16	15	27	33	18	9	11
22	15	7	11	25	33	37	20	23	32
3	18	13	41	13	40	7	17	8	12
17	9	7	43	2	12	18	21	28	35
23	12	33	27	7	35	11	23	42	40
32	2	40	48	13	19	21	13	16	25
37	16	19	11	12	43	23	24	32	40
9	25	18	14	8	25	41	11	46	50
16	31	4	1	2	30	51	28	24	17
25	43	6	22	27	29	38	19	63	42

Solution

Solutions are given as continuous lines on the first three mazes. The final maze has no solution; two (of many possible) attempts are shown with dotted lines, both working forward and backward, but both dead-end.