

Teacher's Notes for Activity Sheet 3

1. 3×3 has a magic constant of 15; 5×5 has a magic constant of 65; 13×13 has a magic constant of 1,105.
2. 3×3 's middle number is 5; 5×5 's middle number is 13; 13×13 's middle number is 85.
3. a) no, middle number should be 5.
b) no, the middle number should be 13.
c) yes, all rows, columns, and main diagonals add to 175, the magic constant.
d) no, the magic constant is 65 and row three's sum is 58.
4. The middle number is 41. The magic constant is 369.

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