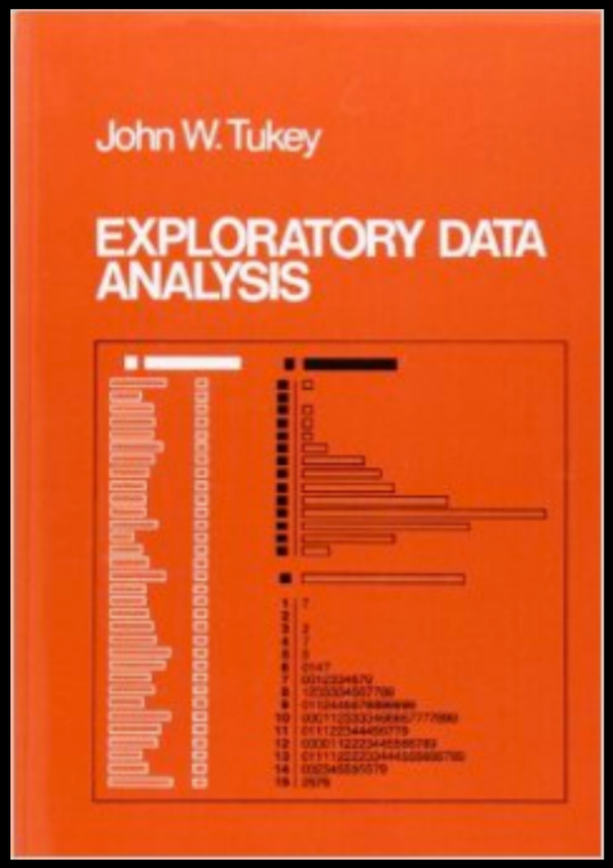
WEEK II

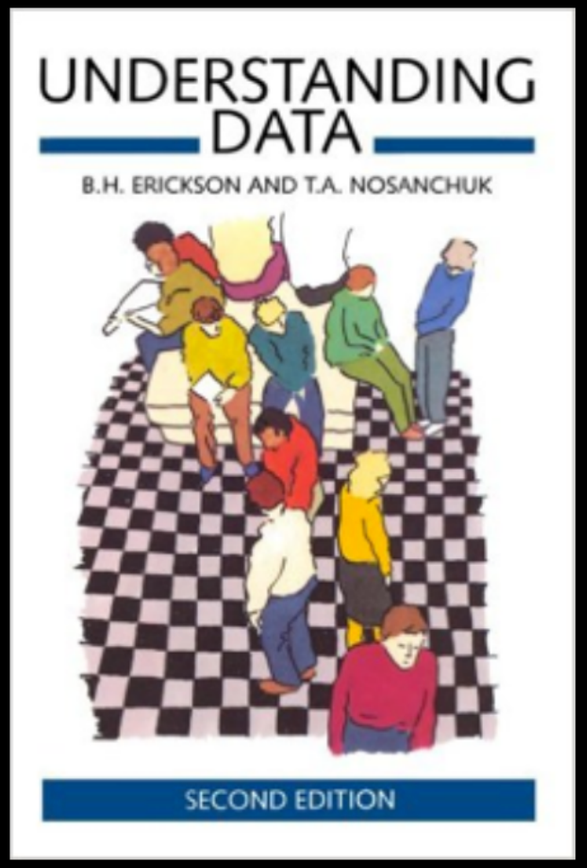
DATA EXPLORATION

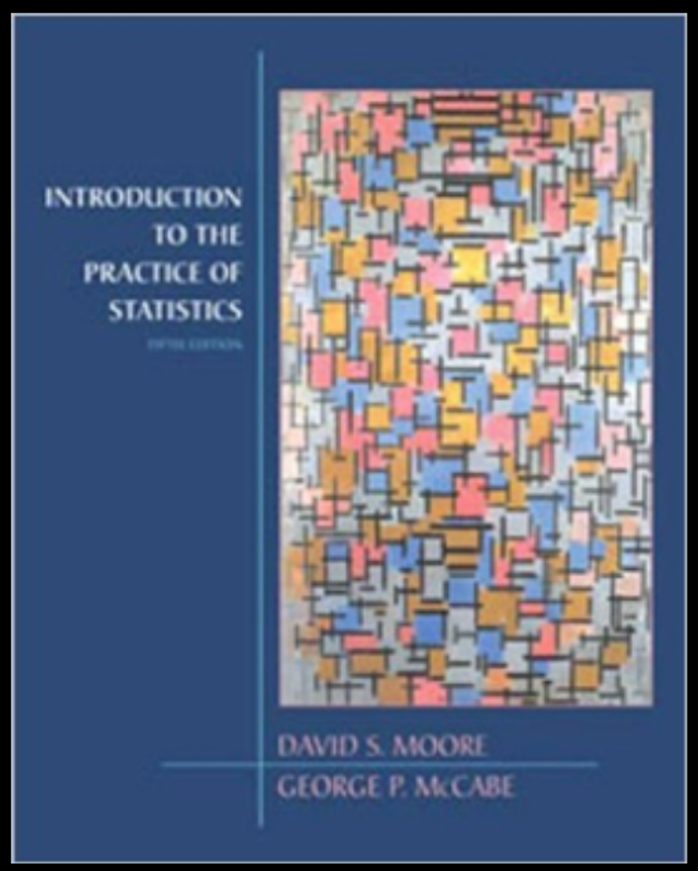
Part one:

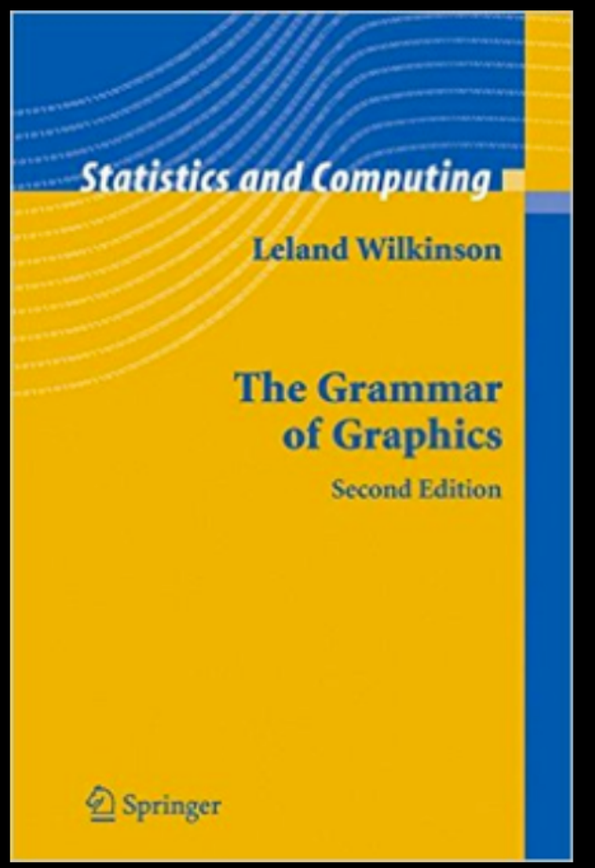
visualization for discovery

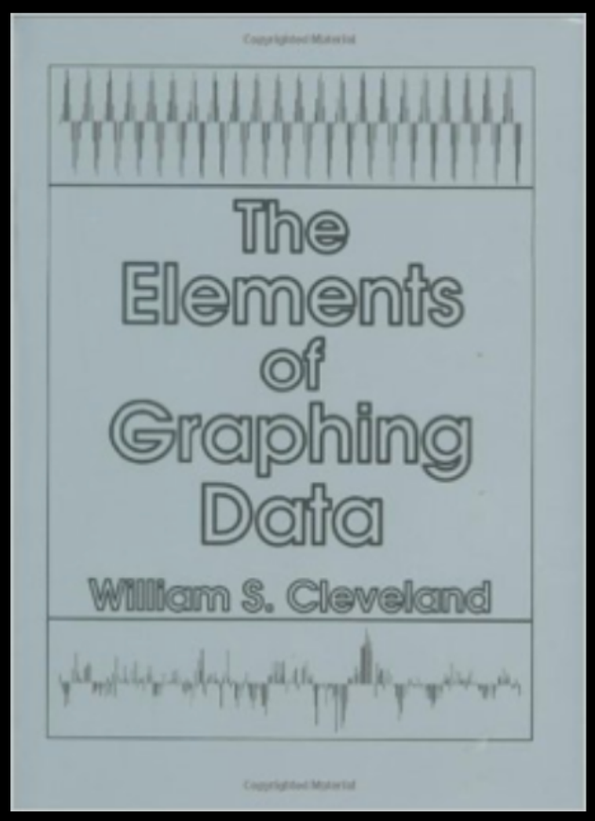
Data visualization and Exploratory Data Analysis

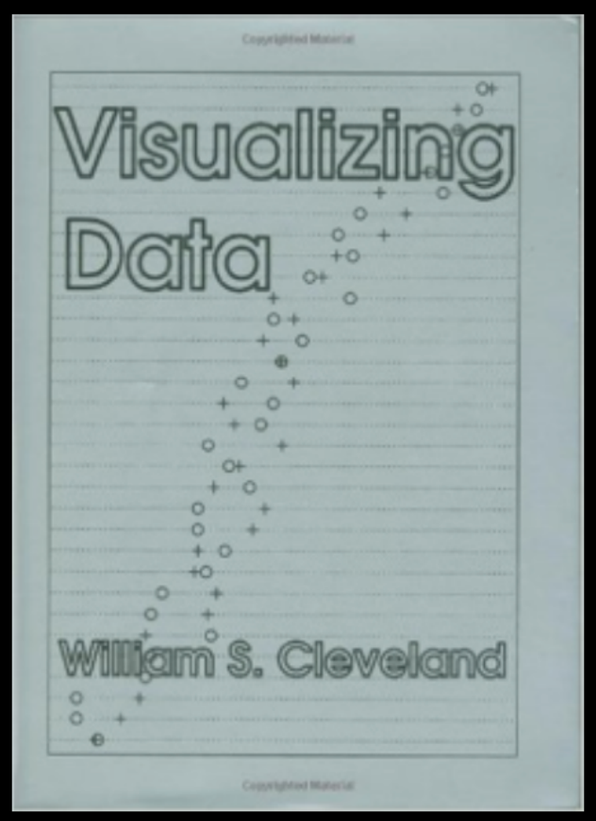


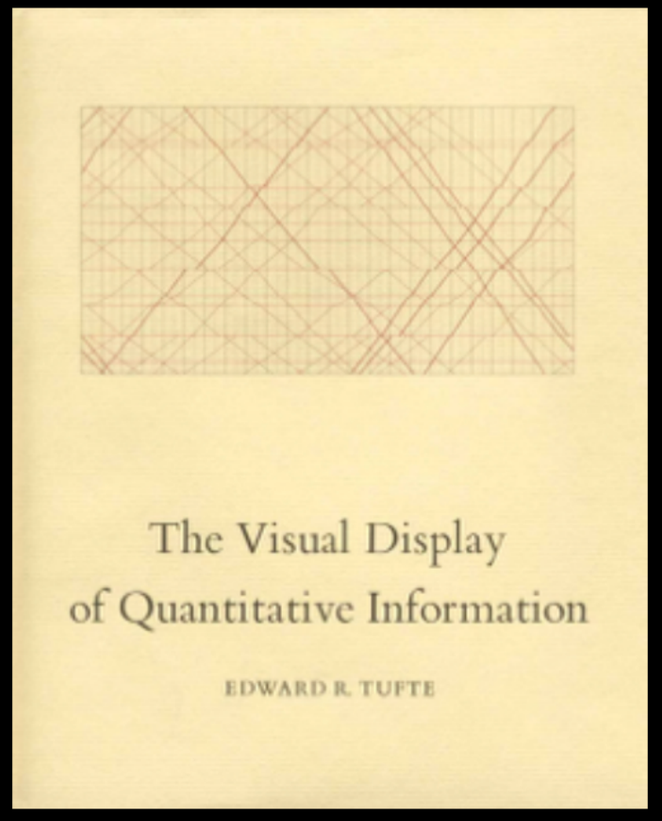












A little exercise with InZight

inzight

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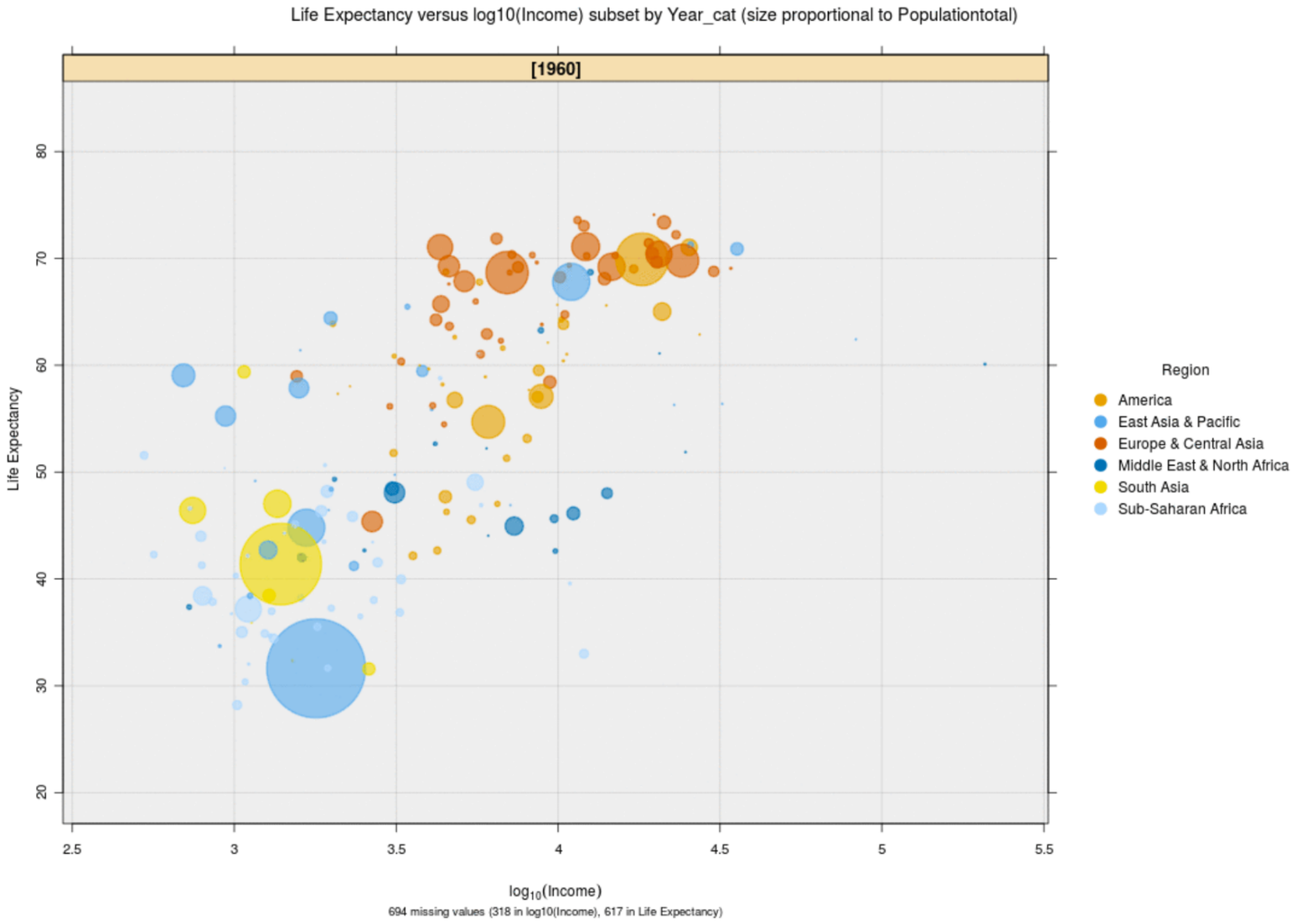

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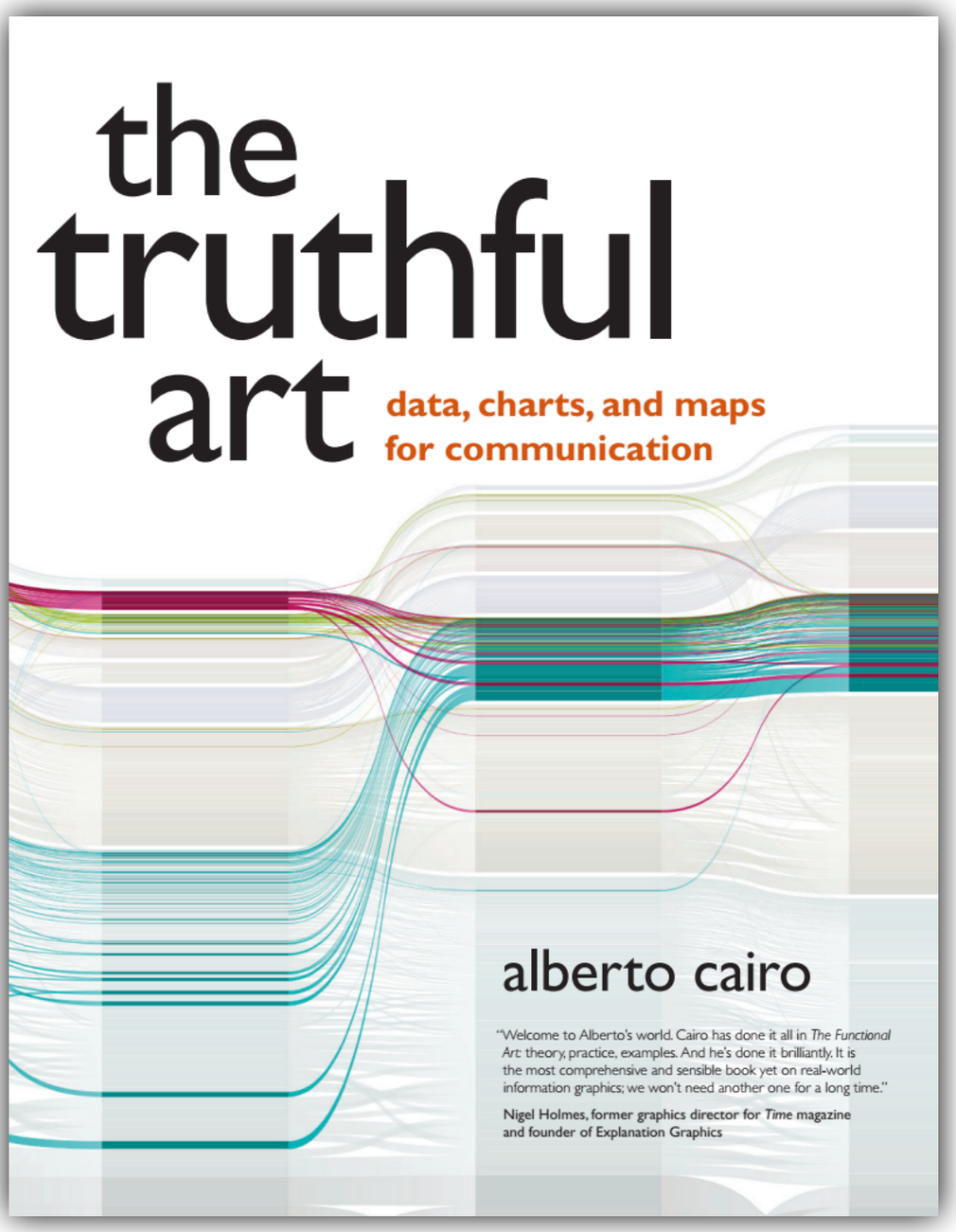
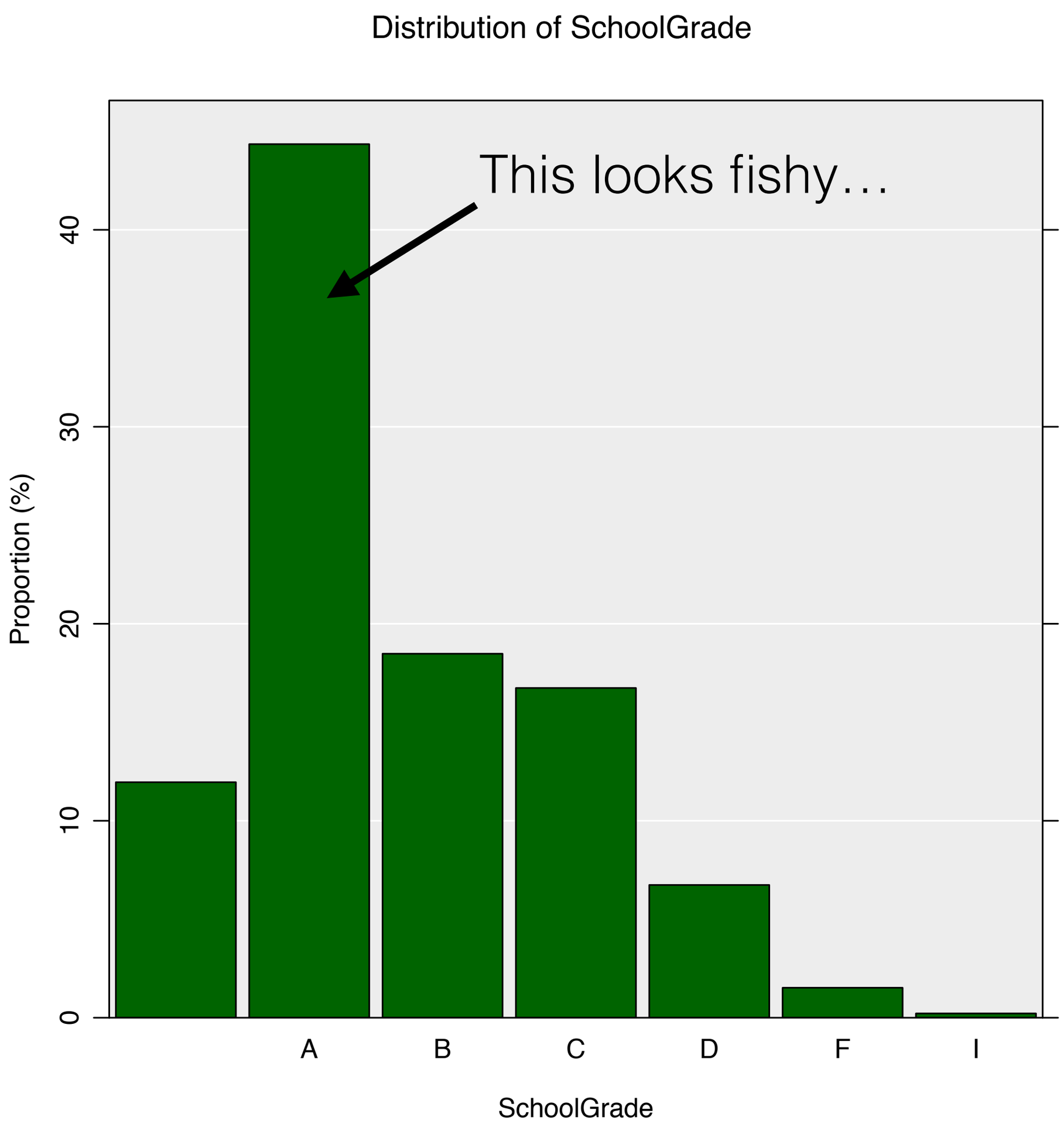
Schools in Miami-Dade County

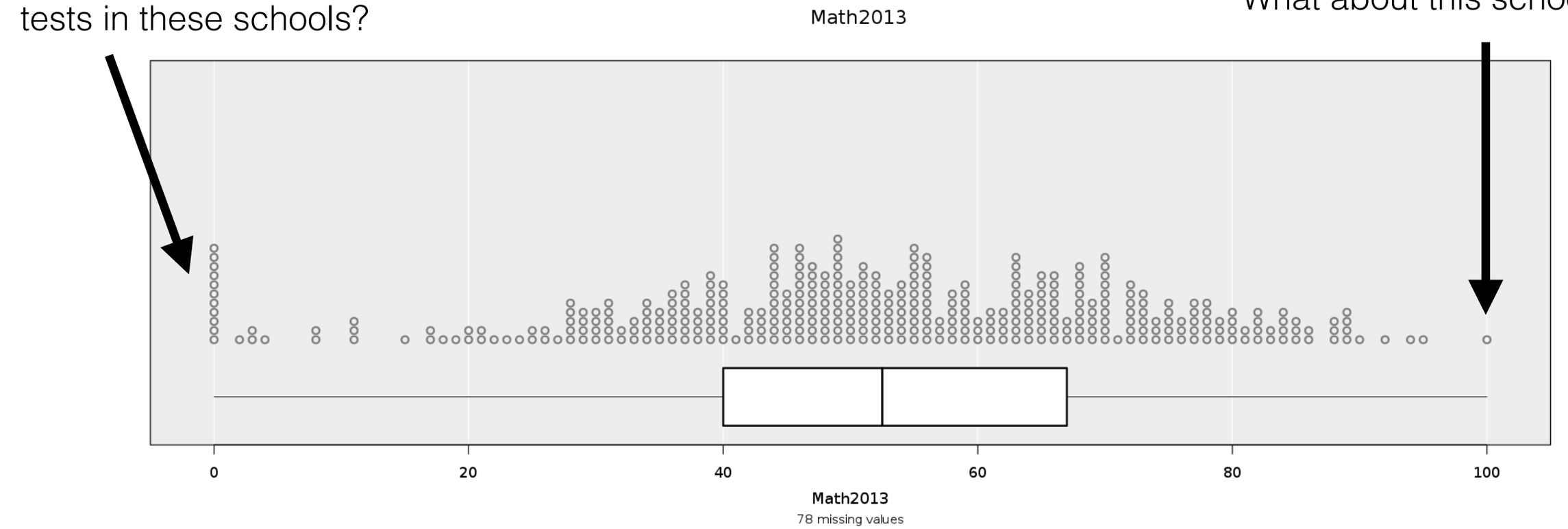


	A	B	C	D	E	F	G	H
1	SchoolName	BoardDistrict	SchoolGrade	Reading2012	Reading2013	ReadingDiffe	Math2012	Math2013
2	0041 AIR BAS	9	A	82	80	-2	71	75
3	0070 CORAL	9	A	71	73	2	64	56
4	0071 EUGEN	5	A	69	69	0	66	64
5	0072 SUMMI	9	B	57	50	-7	50	54
6	0073 MANDA	9	C	34	32	-2	38	39
7	0081 LENOR/	2	F	28	29	1	26	47
8	0091 BOB GF	4	A	68	70	2	68	66
9	0092 NORMA	3	A	73	72	-1	78	77
10	0100 MATER	4	A	68	68	0	73	76
11	0101 ARCOL/	2	C	39	32	-7	41	39
12	0102 MIAMI	9	D	38	41	3	43	47
13	0111 MAYA /	5	B	45	35	-10	59	50
14	0121 AUBUR	6	A	53	51	-2	56	55
15	0122 DR ROL	5	A	65	64	-1	66	63
16	0125 NORMA	7	A	70	67	-3	74	70
17	0161 AVOCA	9		45	33	-12	45	45
18	0201 BANYA	8	A	73	74	1	72	70
19	0211 DR MA	7	A	71	71	0	74	68
20	0231 AVENTI	3	A	68	68	0	67	67
21	0241 R K BR(	3	A	76	75	-1	81	77
22	0251 ETHEL I	8	A	85	80	-5	89	90
23	0261 BEL-AIF	9	D	32	32	0	36	48
24	0271 BENT T	8	A	70	61	-9	69	60
25	0311 GOULD	9	B	36	40	4	51	52
26	0312 MATER	4	A	75	76	1	84	85
27	0321 BISCAY	3	B	45	42	-3	52	50
28	0332 SOMER	9	A	62	66	4	54	64
29	0339 SOMER	9	B	67	57	-10	60	54
30	0341 ARCH C	1	B	47	48	1	47	48
31	0342 PINECR	7	A	72	75	3	78	76
32	0361 BISCAY	1	D	37	35	-2	39	37
33	0400 RENAIS	5	A	80	82	2	76	82
34	0401 VAN E I	2	A	46	44	-2	62	56
35	0410 ACADE	8	A	68	69	1	62	74

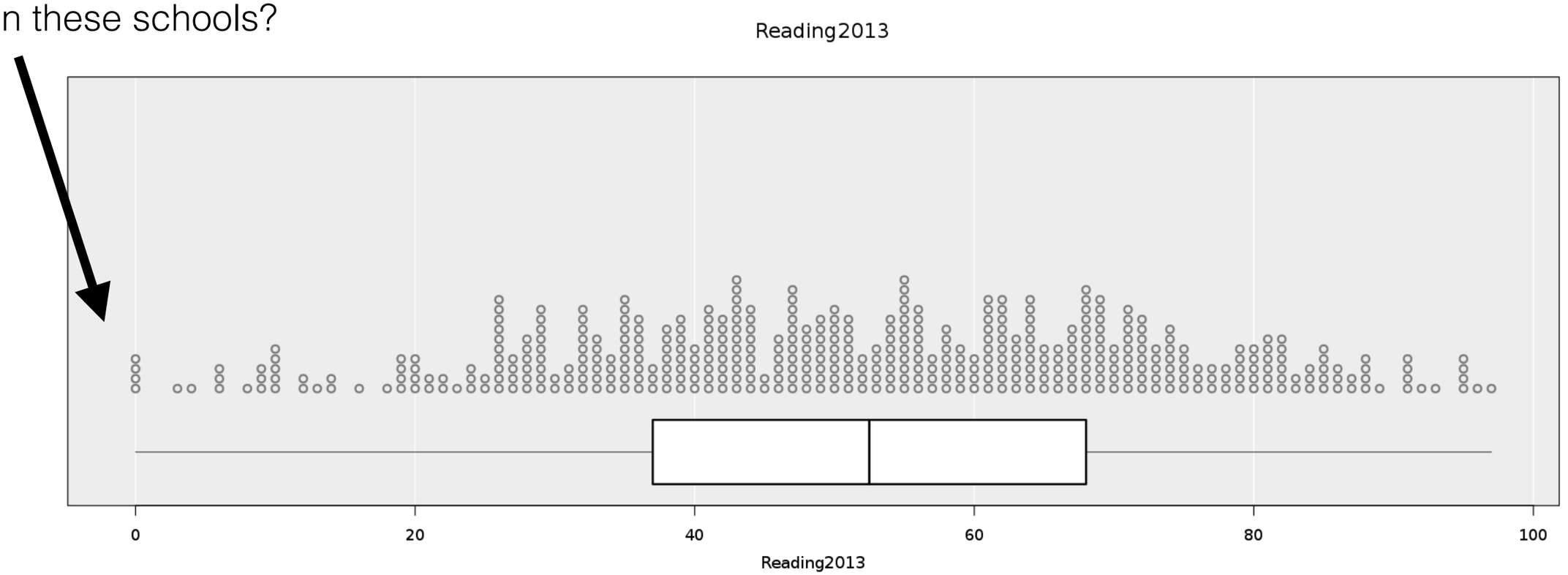

Distribution of SchoolGrade
This looks fishy…
Proportion (%)
0
10
20
30
40
A
B
C
D
F
I
SchoolGrade

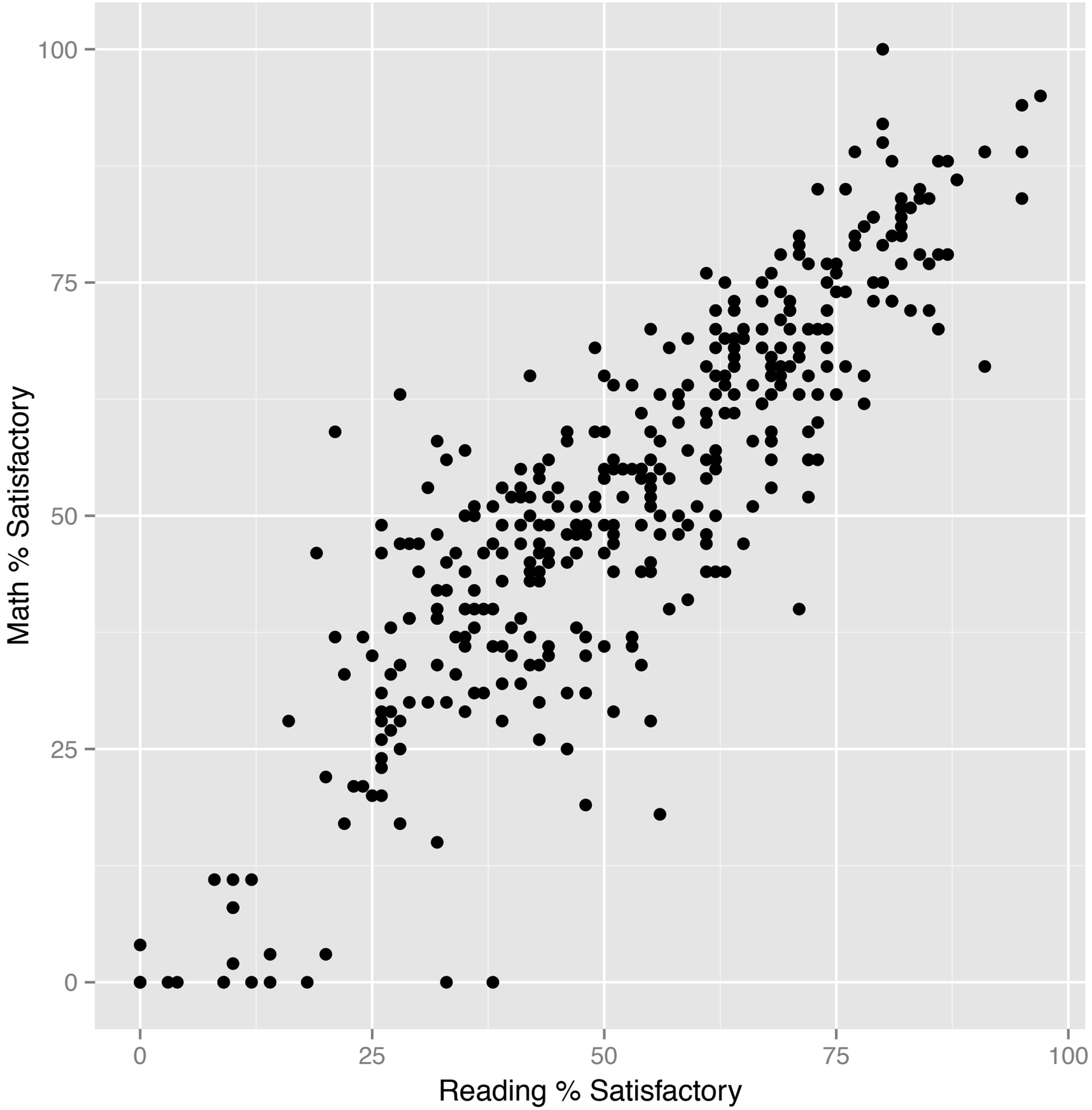
Why no students pass Math tests in these schools?

What about this school?

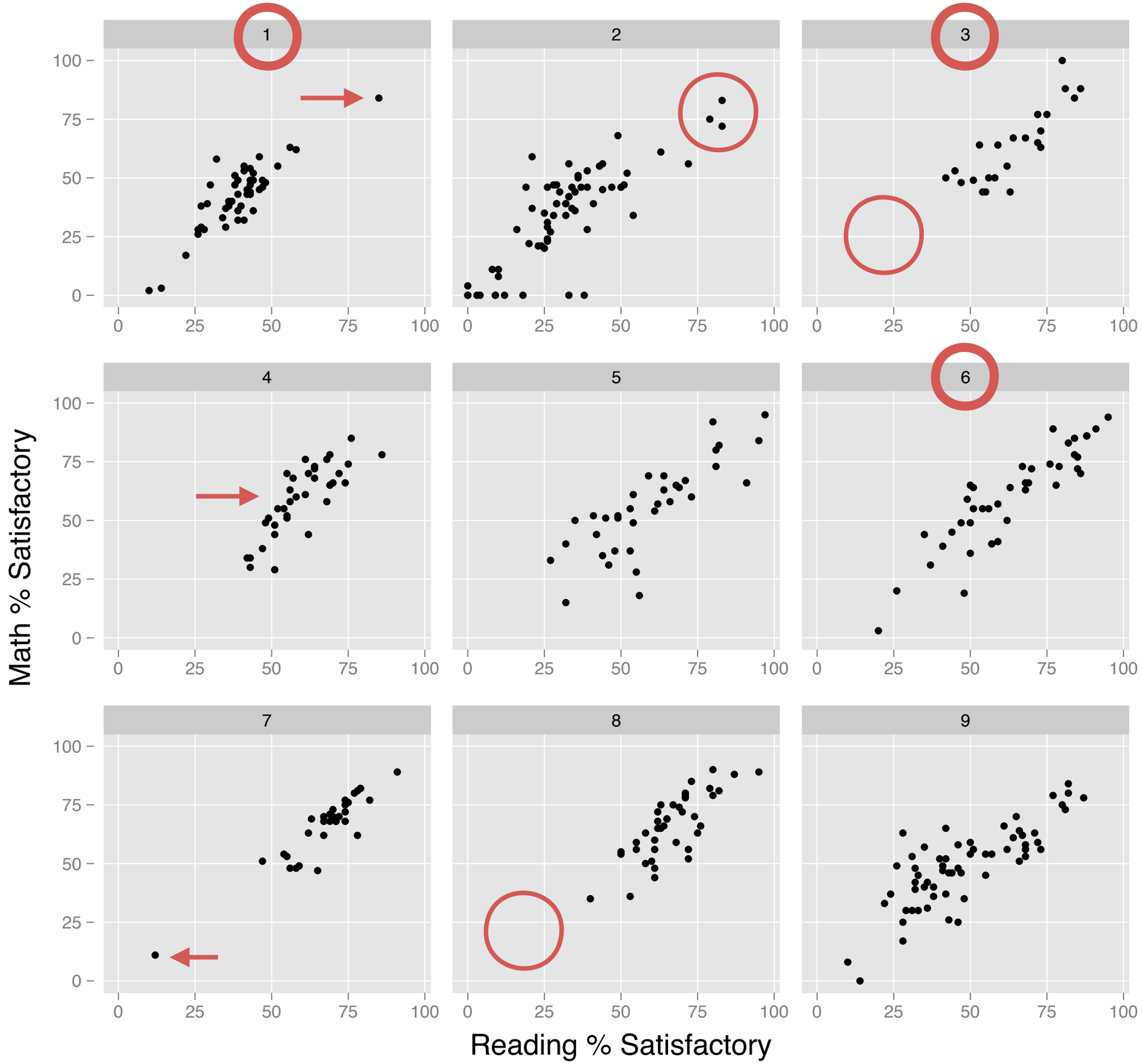


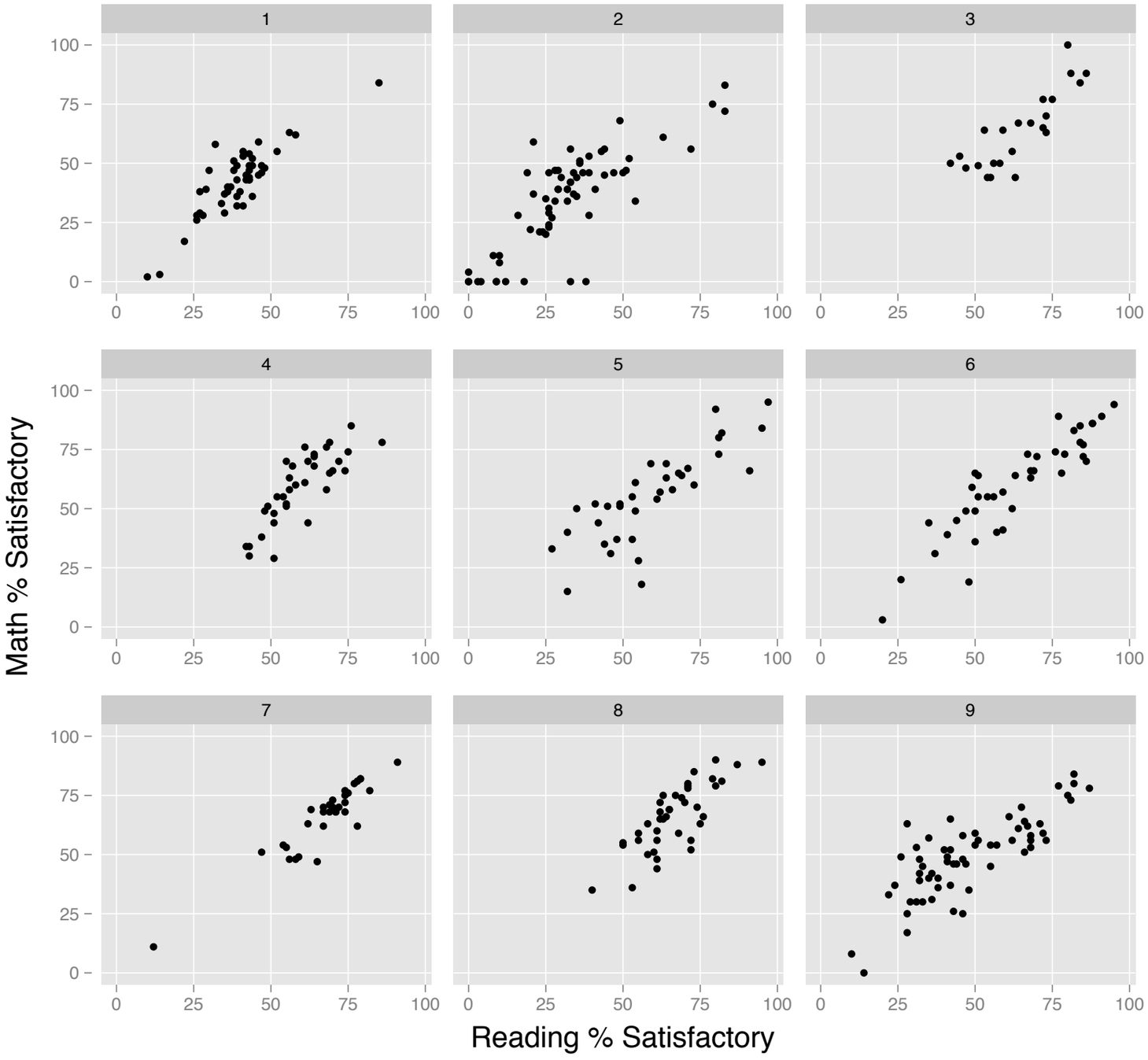
Why no students pass reading tests in these schools?

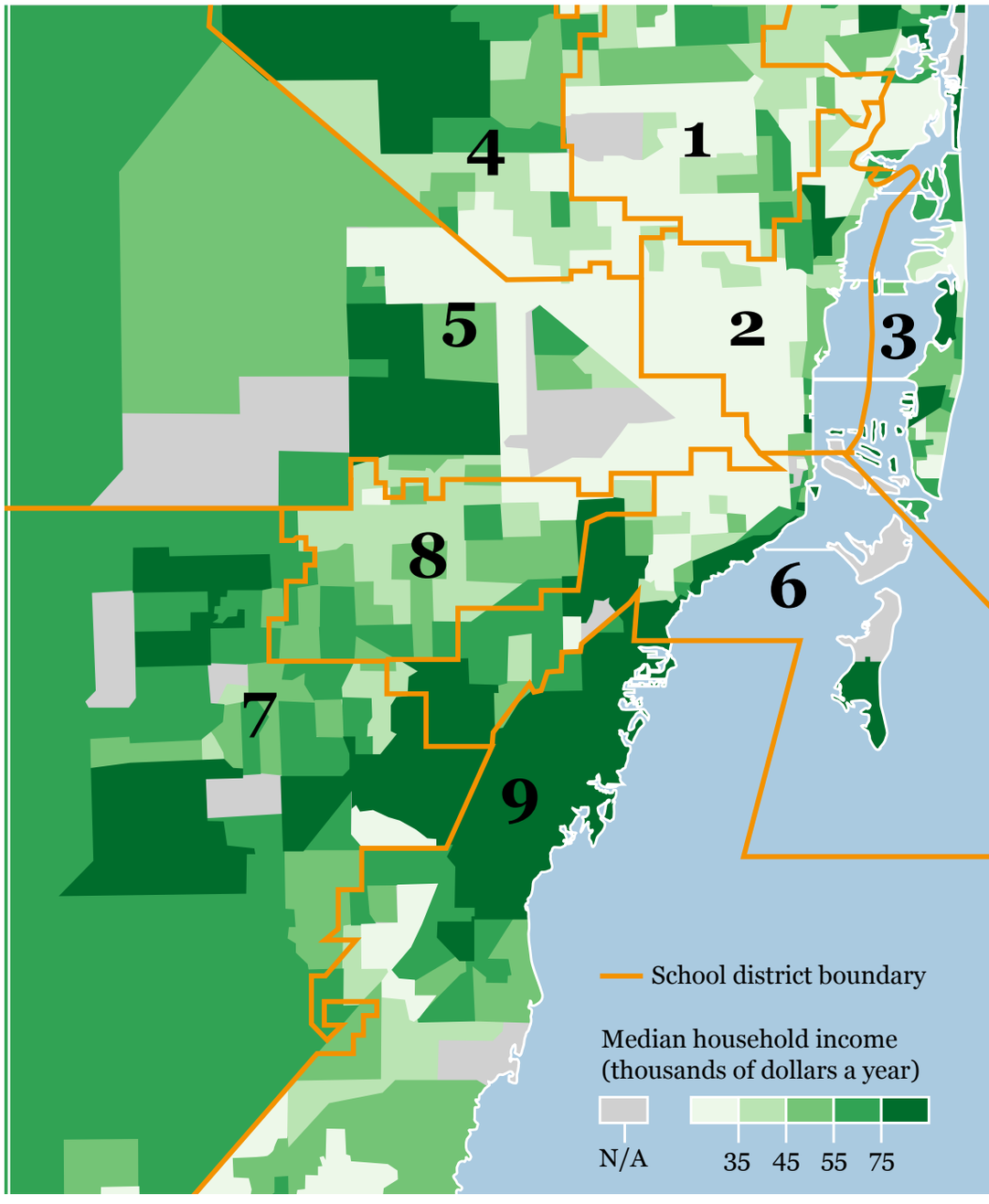



100
75
50
25
0
Math % Satisfactory
0
25
50
75
100
Reading % Satisfactory

Potential interesting clues




1
2
3
4
5
6
7
8
9
0
25
50
75
100
Math % Satisfactory
Reading % Satisfactory


1
2
3
4
5
6
7
8
9
School district boundary
Median household income
(thousands of dollars a year)
N/A
35
45
55
75