

Teacher Data Initiative Conversion Charts

Relationship between raw scores (questions correct), scale scores, and Z-scores

Math - 4th grade

2009		
Raw scores	Scale scores	Z-scores
0	485	-4.93
1	485	-4.93
2	485	-4.93
3	485	-4.93
4	485	-4.93
5	485	-4.93
6	485	-4.93
7	525	-3.96
8	550	-3.35
9	564	-3.01
10	574	-2.77
11	582	-2.58
12	588	-2.43
13	593	-2.31
14	598	-2.19
15	602	-2.09
16	606	-2.00
17	609	-1.92
18	612	-1.85
19	615	-1.78
20	618	-1.71
21	621	-1.63
22	623	-1.59
23	625	-1.54
24	627	-1.49
25	630	-1.42
26	632	-1.37
27	634	-1.32
28	636	-1.27
29	637	-1.25
30	639	-1.20
31	641	-1.15
32	643	-1.10
33	644	-1.08
34	646	-1.03
35	648	-0.98
36	649	-0.96
37	651	-0.91
38	653	-0.86
39	654	-0.83
40	656	-0.79
41	658	-0.74

2009 (continued)		
Raw scores	Scale scores	Z-scores
42	659	-0.71
43	661	-0.66
44	663	-0.62
45	664	-0.59
46	666	-0.54
47	668	-0.49
48	669	-0.47
49	671	-0.42
50	673	-0.37
51	675	-0.33
52	677	-0.28
53	679	-0.23
54	681	-0.18
55	683	-0.13
56	686	-0.06
57	688	-0.01
58	691	0.06
59	694	0.14
60	697	0.21
61	700	0.28
62	704	0.38
63	708	0.47
64	713	0.60
65	719	0.74
66	727	0.93
67	737	1.18
68	751	1.52
69	777	2.15
70	800	2.70

2010		
Raw scores	Scale scores	Z-scores
0	485	-5.43
1	485	-5.43
2	485	-5.43
3	485	-5.43
4	485	-5.43
5	485	-5.43
6	537	-4.01
7	559	-3.41
8	572	-3.06
9	581	-2.81
10	588	-2.62
11	594	-2.46
12	599	-2.32
13	603	-2.21
14	607	-2.10
15	611	-2.00
16	614	-1.91
17	617	-1.83
18	620	-1.75
19	623	-1.67
20	625	-1.61
21	628	-1.53
22	630	-1.48
23	632	-1.42
24	634	-1.37
25	636	-1.31
26	638	-1.26
27	640	-1.21
28	641	-1.18
29	643	-1.12
30	645	-1.07
31	646	-1.04
32	648	-0.99
33	650	-0.93
34	651	-0.91
35	653	-0.85
36	654	-0.82
37	655	-0.80
38	657	-0.74
39	658	-0.71
40	660	-0.66
41	661	-0.63

2010 (continued)		
Raw scores	Scale scores	Z-scores
42	663	-0.58
43	664	-0.55
44	665	-0.52
45	667	-0.47
46	668	-0.44
47	670	-0.39
48	671	-0.36
49	673	-0.31
50	675	-0.25
51	676	-0.22
52	678	-0.17
53	680	-0.12
54	682	-0.06
55	683	-0.03
56	685	0.02
57	688	0.10
58	690	0.16
59	692	0.21
60	695	0.29
61	697	0.35
62	700	0.43
63	704	0.54
64	707	0.62
65	712	0.76
66	717	0.89
67	724	1.08
68	734	1.36
69	751	1.82
70	800	3.15

Note: For additional information on the raw score (questions correct) to scale score conversion see the New York State Education Department's website on ELA and math assessment results (<http://www.p12.nysed.gov/irs/ela-math/>).