

**Teacher Data Initiative Conversion Charts**

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

*Math - 5th grade*

2009		
Raw scores	Scale scores	Z-scores
0	495	-5.41
1	495	-5.41
2	495	-5.41
3	495	-5.41
4	495	-5.41
5	495	-5.41
6	495	-5.41
7	562	-3.48
8	583	-2.88
9	595	-2.54
10	603	-2.31
11	610	-2.11
12	615	-1.96
13	620	-1.82
14	625	-1.68
15	629	-1.56
16	632	-1.47
17	635	-1.39
18	638	-1.30
19	641	-1.22
20	644	-1.13
21	647	-1.04
22	649	-0.99
23	652	-0.90
24	654	-0.84
25	656	-0.78
26	659	-0.70
27	661	-0.64
28	663	-0.58
29	666	-0.50
30	668	-0.44
31	670	-0.38
32	673	-0.30
33	675	-0.24
34	678	-0.15
35	681	-0.07
36	684	0.02
37	687	0.11
38	690	0.19
39	694	0.31
40	699	0.45
41	704	0.59
42	711	0.80
43	720	1.05
44	734	1.46
45	758	2.15
46	780	2.78

2010		
Raw scores	Scale scores	Z-scores
0	495	-5.45
1	495	-5.45
2	495	-5.45
3	495	-5.45
4	495	-5.45
5	495	-5.45
6	542	-4.09
7	568	-3.33
8	583	-2.89
9	594	-2.57
10	603	-2.31
11	609	-2.13
12	615	-1.96
13	620	-1.81
14	625	-1.67
15	629	-1.55
16	633	-1.43
17	636	-1.35
18	640	-1.23
19	643	-1.14
20	645	-1.09
21	648	-1.00
22	651	-0.91
23	653	-0.85
24	656	-0.76
25	658	-0.71
26	660	-0.65
27	662	-0.59
28	664	-0.53
29	667	-0.44
30	669	-0.39
31	671	-0.33
32	673	-0.27
33	676	-0.18
34	678	-0.12
35	680	-0.07
36	683	0.02
37	686	0.11
38	689	0.20
39	693	0.31
40	697	0.43
41	701	0.55
42	707	0.72
43	714	0.92
44	725	1.24
45	744	1.80
46	780	2.85

**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/>).**