

**Teacher Data Initiative Conversion Charts**

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

*Math - 3rd grade*

2009		
Raw scores	Scale scores	Z-scores
0	470	-5.87
1	470	-5.87
2	470	-5.87
3	470	-5.87
4	470	-5.87
5	560	-3.47
6	587	-2.74
7	600	-2.40
8	608	-2.18
9	615	-1.99
10	620	-1.86
11	624	-1.75
12	628	-1.65
13	631	-1.57
14	634	-1.49
15	637	-1.41
16	639	-1.35
17	642	-1.27
18	644	-1.22
19	646	-1.16
20	648	-1.11
21	650	-1.06
22	652	-1.00
23	654	-0.95
24	656	-0.90
25	658	-0.84
26	660	-0.79
27	662	-0.74
28	664	-0.68
29	667	-0.60
30	669	-0.55
31	671	-0.50
32	674	-0.42
33	677	-0.34
34	681	-0.23
35	685	-0.12
36	690	0.01
37	697	0.20
38	710	0.55
39	770	2.15

2010		
Raw scores	Scale scores	Z-scores
0	470	-6.61
1	470	-6.61
2	470	-6.61
3	470	-6.61
4	470	-6.61
5	600	-2.71
6	613	-2.32
7	620	-2.11
8	625	-1.96
9	629	-1.84
10	633	-1.72
11	636	-1.63
12	638	-1.57
13	641	-1.48
14	643	-1.42
15	645	-1.36
16	647	-1.30
17	649	-1.24
18	651	-1.18
19	653	-1.12
20	655	-1.06
21	657	-1.00
22	659	-0.94
23	660	-0.91
24	662	-0.85
25	664	-0.79
26	666	-0.73
27	668	-0.67
28	670	-0.61
29	672	-0.55
30	674	-0.49
31	676	-0.43
32	678	-0.37
33	681	-0.28
34	684	-0.19
35	687	-0.10
36	691	0.02
37	697	0.20
38	707	0.50
39	770	2.39

**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/>).