



Smarter Balanced Assessments: English Language Arts and Mathematics

Spring 2016 Results for Vermont Students in Grades 3-8 and 11

***What can we learn from the data about
equity and performance?***



- No single test can measure everything that matters.
- Good tests provide data that help us improve.
 - identify **areas of strength** (promising practices and successes).
 - identify **areas for growth** (places where we are not achieving the high goals we have set for ourselves).
- Reading, writing and math are not all that matters, BUT there is no path out of poverty for students who don't develop these skills.



Key Messages

1. Vermont does fairly well on both assessments and at most grades, near the proficiency mark.
2. Scores in 2017 were lower on most assessments than in 2016.
3. Inequitable opportunity for students exists across Vermont
 - Substantial variability in performance across schools on all assessments, even for schools with similar demographics.
 - Students who belong to historically disadvantaged groups continue to be underserved, on average.

2016 State Results

Mathematics and English-Language Arts

2017 Smarter Balanced Math Results	Total Proficient and Above	Scale Proficient Target	Scale State Average	2016 Smarter Balanced English Language Arts Results	Total Proficient and Above	Scale Proficient Target	Scale State Average
Grade 3	52%	2436	2438	Grade 3	49%	2432	2425
Grade 4	47%	2485	2476	Grade 4	49%	2473	2466
Grade 5	42%	2528	2505	Grade 5	55%	2502	2508
Grade 6	39%	2552	2519	Grade 6	52%	2531	2531
Grade 7	44%	2567	2541	Grade 7	55%	2552	2555
Grade 8	41%	2586	2555	Grade 8	55%	2567	2570
Grade 11	37%	2628	2576	Grade 11	59%	2583	2599

State English Language Arts Scores: Takeaways

- ✓ **English Language Arts:**
This year, Vermont scale scores in most grades were at or above proficient. That's good.
- ✓ **English Language Arts:**
At all grade levels more than half the students scored proficient or higher. That's good, but it should be better.



State Mathematics Scores: Takeaways



Mathematics: With the exception of Grade 3, Vermont's average scale score at each grade level is a bit lower than the proficient range. That's not so good.

Mathematics: With the exception of grade 3, at every grade level less than half the students scored in the proficient range or higher. That's not so good.

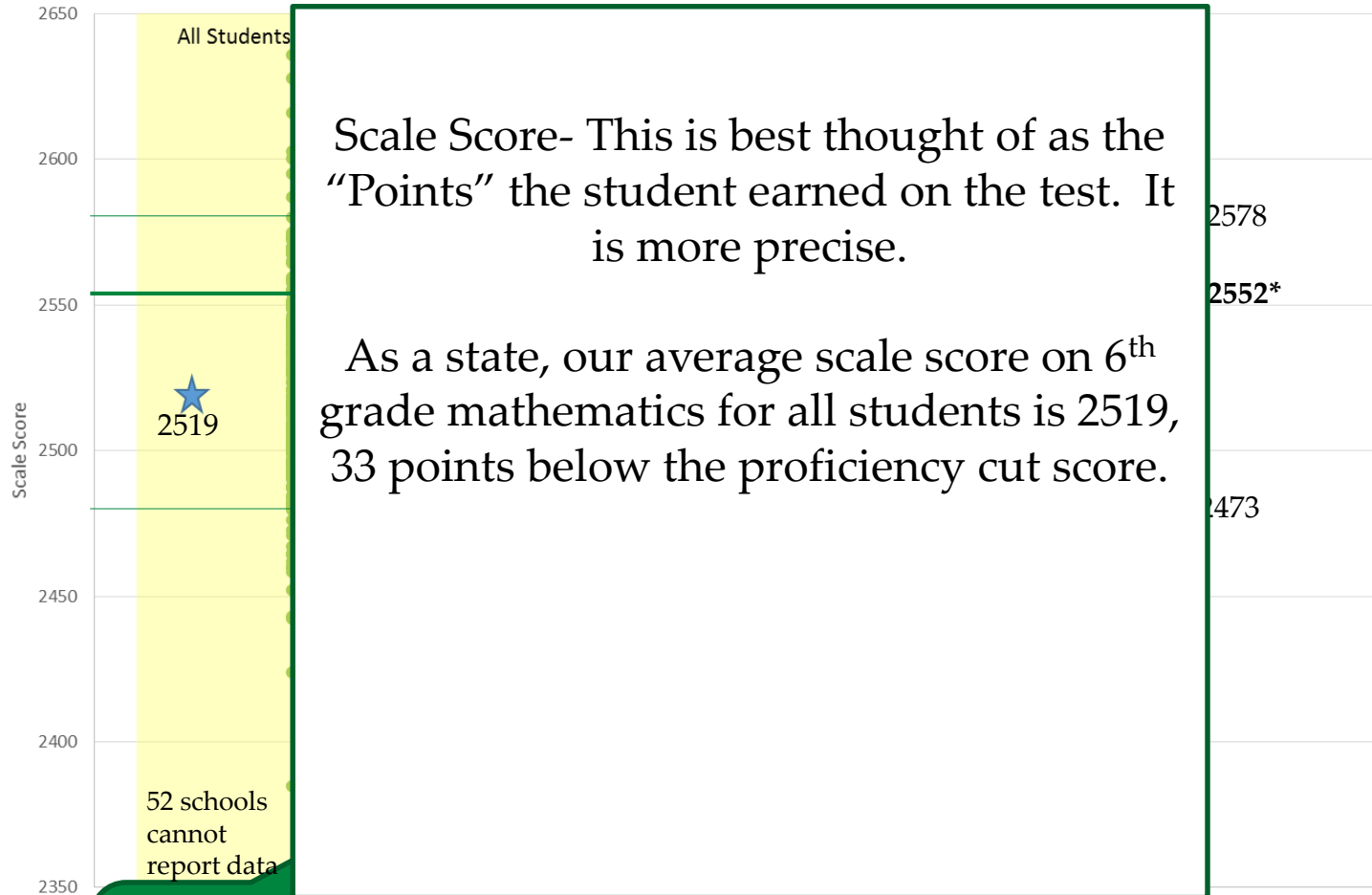
What State Level Numbers Do Not Tell Us

- ✓ How equitable are outcomes across schools?
- ✓ How equitable are outcomes for students of different groups?
- ✓ How variable are outcomes for students across demographically similar schools?



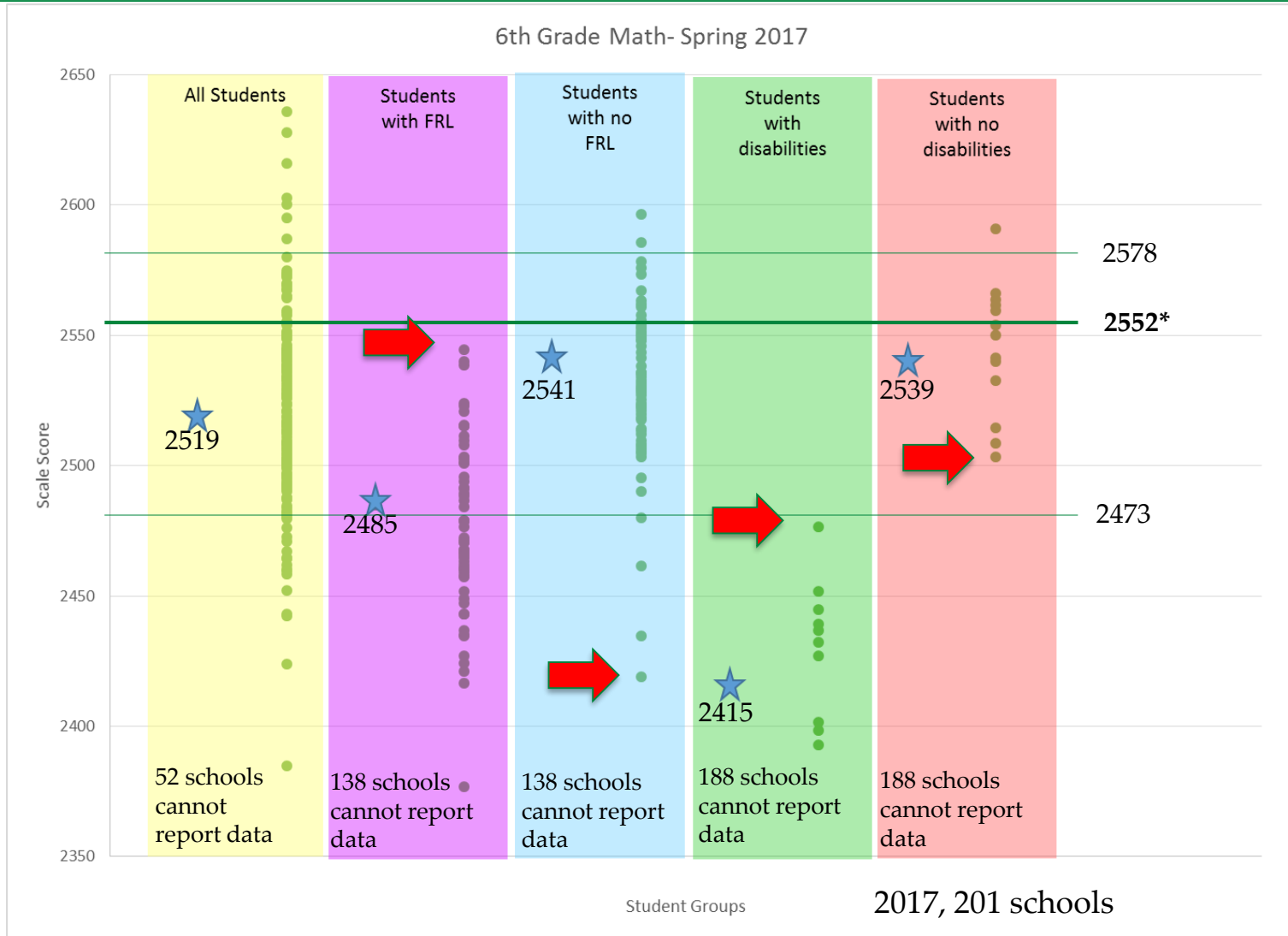
Exploring Patterns of Inequity

6th Grade Math- Spring 2017



Distribution of schools demonstrates a pattern of inequity across schools (ALL) AND across groups (FRL, SPED, etc.)

Exploring Patterns of Inequity



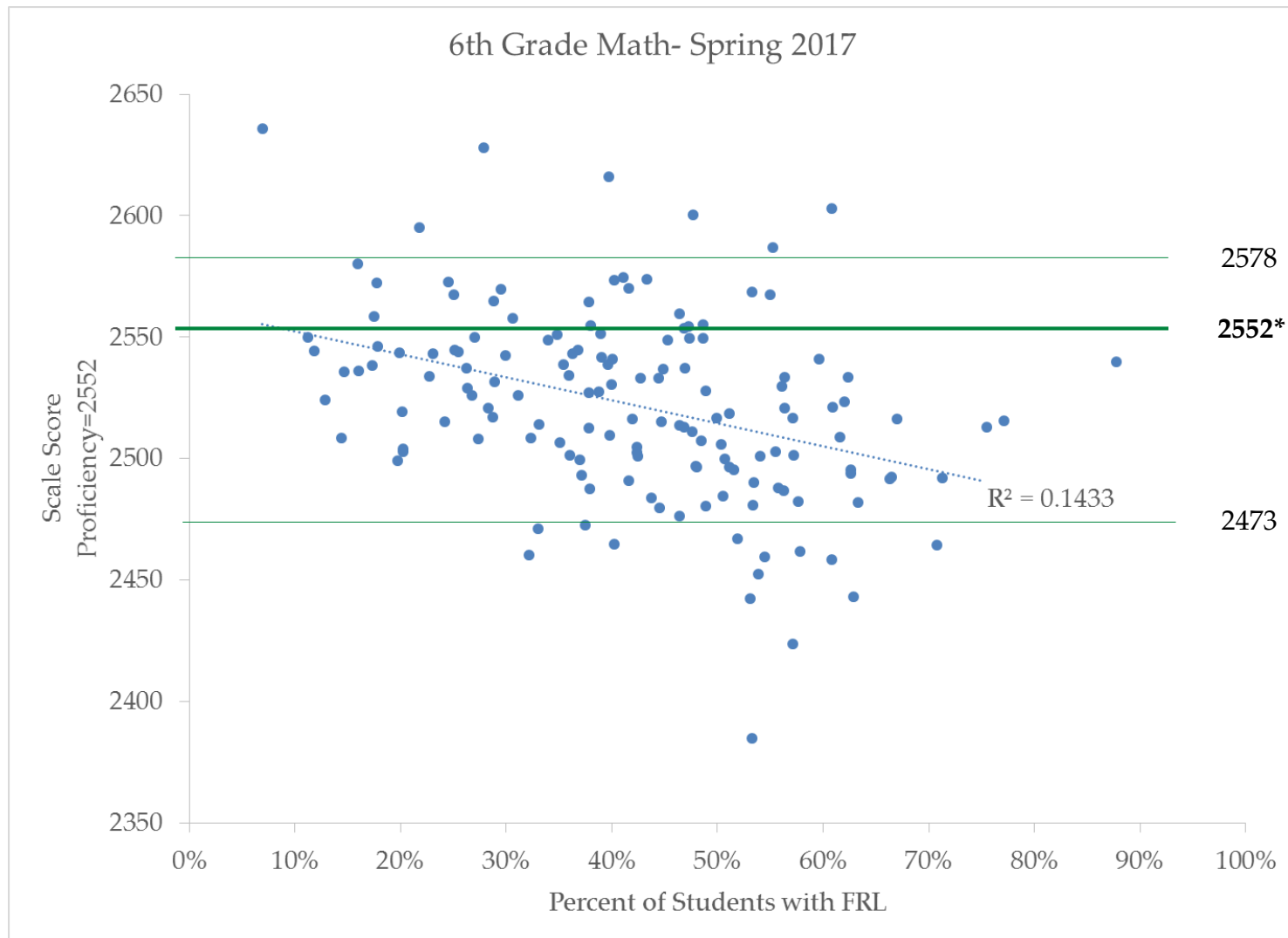
Exploring Patterns of Inequity

Test	Minimum Scale Score	Maximum Scale Score	Range in Scale Score	Minimum Percent Proficient	Maximum Percent Proficient	Range in Percent Proficient	Schools Too Small to Report <11
SB Math Grade 03							
All Students	2364	2526	162	17%	88%	71%	46
SB Math Grade 04							
All Students	2393	2547	454	7%	90%	83%	51
SB Math Grade 05							
All Students	2411	2585	174	4%	87%	83%	49
SB Math Grade 06							
All Students	2385	2636	251	5%	93%	88%	52
SB Math Grade 07							
All Students	2442	2641	199	8%	81%	73%	18
SB Math Grade 08							
All Students	2431	2666	235	3%	87%	84%	18
SB Math Grade 11							
All Students	2461	2671	210	4%	71%	67%	2

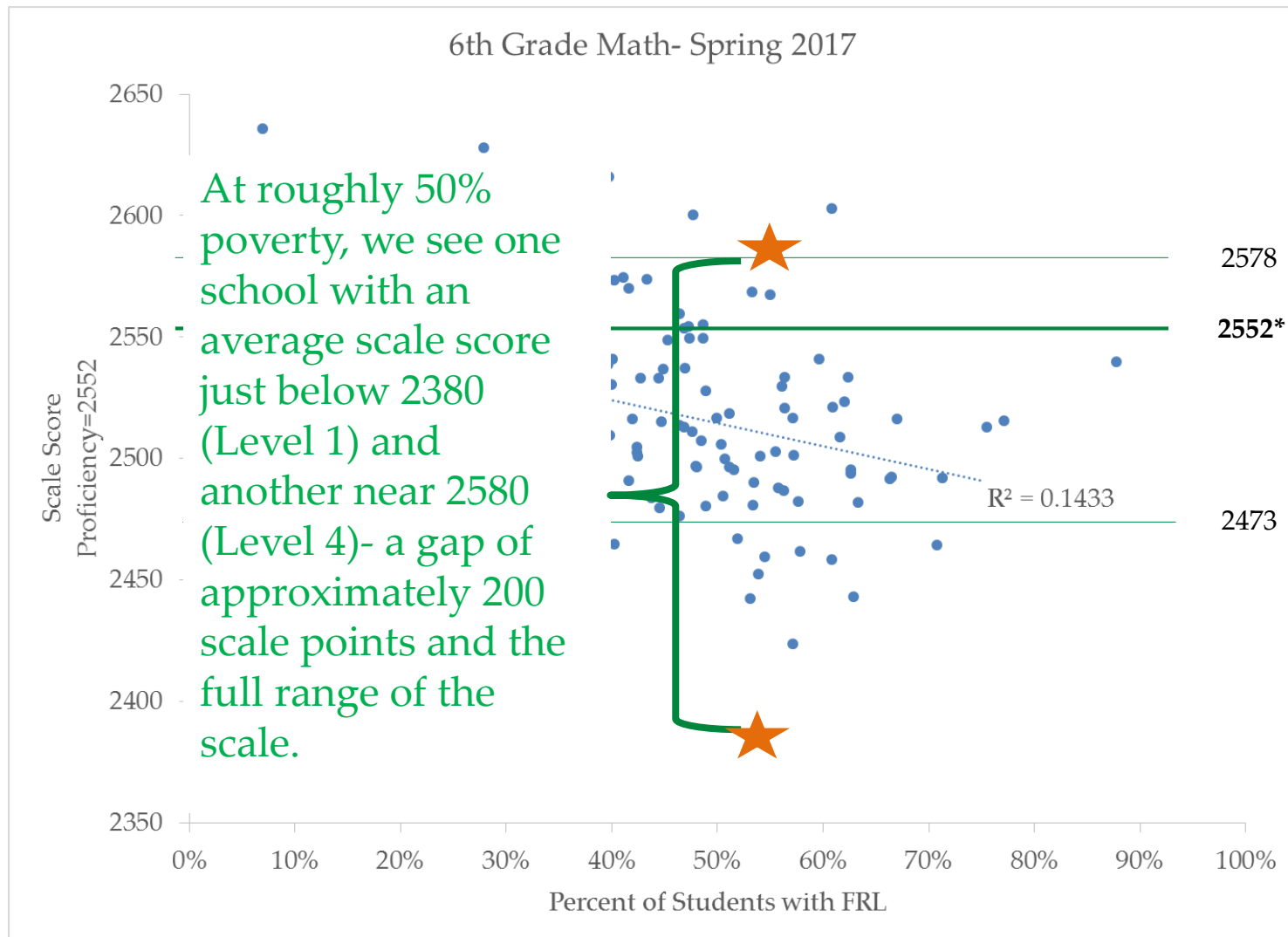
Scale scores vary by 150-214 points between the highest and lowest performing schools

Differences in proficiency rates range from 62-88% between the highest and lowest performing schools.

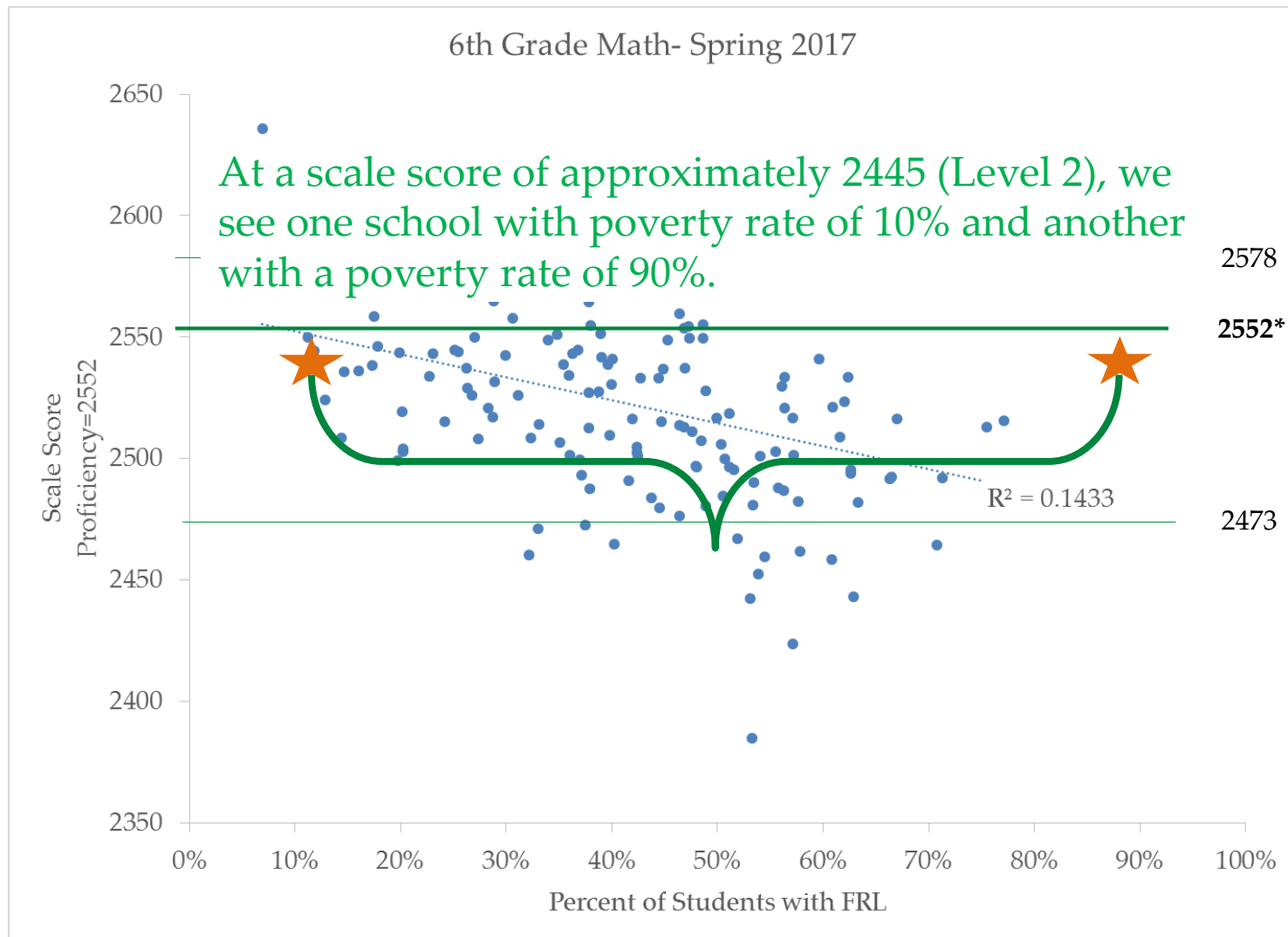
Exploring Patterns of Inequity



Exploring Patterns of Inequity



Exploring Patterns of Inequity





Next Steps

- Identify schools which appear to have promising practices that could be shared with others.
- Data analysis to understand the dips in school scores.
- State-wide efforts to support mathematics
- Implement the new ESSA and EQR accountability work.



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 - Students who belong to historically disadvantaged groups continue to be underserved, on average.



Questions?

For More Information

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Weblinks:

- [VT Smarter Balanced Assessment Portal](#)
- [VT Agency of Education Data Pages](#)
- [Smarter Balanced Assessment Consortium Website](#)

Row Labels	Item	ELA03 2432	ELA04 2473	ELA05 2502	ELA06 2531	ELA07 2552	ELA08 2567	ELA11 2583
All Students	Count	170	163	160	152	107	104	59
All Students	Max	2506	2542	2592	2623	2620	2656	2687
All Students	Max to Prof	62	68	90	83	52	55	34
All Students	Min	2349	2365	2411	2420	2470	2481	2473
All Students	Min to Prof	108	95	70	69	55	49	25
All Students	Range	157	177	181	203	150	175	214
American Indian or Alaskan Native	Count	1	0	0	0	0	0	0
American Indian or Alaskan Native	Max	2400						
American Indian or Alaskan Native	Max to Prof	0	0	0	0	0	0	0
American Indian or Alaskan Native	Min	2400						
American Indian or Alaskan Native	Min to Prof	1	0	0	0	0	0	0
American Indian or Alaskan Native	Range	0						
Asian	Count	0	0	1	2	3	3	3
Asian	Max			2452	2554	2598	2622	2686
Asian	Max to Prof	0	0	0	2	2	2	2
Asian	Min			2452	2545	2492	2518	2453
Asian	Min to Prof	0	0	1	0	1	1	1
Asian	Range			0	9	106	104	233

Row Labels	Item	ELA03 2432	ELA04 2473	ELA05 2502	ELA06 2531	ELA07 2552	ELA08 2567	ELA11 2583
Black	Count	1	2	2	3	4	1	1
Black	Max	2343	2391	2472	2452	2549	2474	2451
<i>Black</i>	<i>Max to Prof</i>	0	0	0	0	0	0	0
Black	Min	2343	2357	2452	2396	2474	2474	2451
<i>Black</i>	<i>Min to Prof</i>	1	2	2	3	4	1	1
Black	Range	0	34	20	56	75	0	0
ELL	Count	2	0	1	0	0	1	0
ELL	Max	2357		2382			2470	
<i>ELL</i>	<i>Max to Prof</i>	0	0	0	0	0	0	0
ELL	Min	2329		2382			2470	
<i>ELL</i>	<i>Min to Prof</i>	2	0	1	0	0	1	0
ELL	Range	28		0			0	
Female	Count	87	89	86	73	68	65	47
Female	Max	2500	2543	2587	2600	2633	2637	2663
<i>Female</i>	<i>Max to Prof</i>	42	48	60	49	47	47	37
Female	Min	2370	2384	2463	2466	2479	2535	2503
<i>Female</i>	<i>Min to Prof</i>	45	41	26	24	21	18	10
Female	Range	130	159	124	134	154	102	160

Row Labels	Item	ELA03 2432	ELA04 2473	ELA05 2502	ELA06 2531	ELA07 2552	ELA08 2567	ELA11 2583
FRL	Count	30	32	36	29	20	13	10
FRL	Max	2439	2487	2541	2559	2584	2569	2643
FRL	Max to Prof	5	6	11	4	10	7	6
FRL	Min	2362	2366	2418	2444	2465	2476	2456
FRL	Min to Prof	25	26	25	25	10	6	4
FRL	Range	77	121	123	115	119	93	187
Hispanic	Count	0	0	0	0	1	0	1
Hispanic	Max					2558		
Hispanic	Max to Prof	0	0	0	0	1	0	1
Hispanic	Min					2558		
Hispanic	Min to Prof	0	0	0	0	0	0	0
Hispanic	Range					0		
Male	Count	87	89	86	72	68	64	46
Male	Max	2483	2525	2579	2580	2601	2638	2692
Male	Max to Prof	28	25	34	21	25	19	19
Male	Min	2324	2385	2395	2416	2464	2447	2496
Male	Min to Prof	59	64	52	51	43	45	27
Male	Range	159	140	184	164	137	191	196

Row Labels	Item	ELA03 2432	ELA04 2473	ELA05 2502	ELA06 2531	ELA07 2552	ELA08 2567	ELA11 2583
Migrant	Count	0	0	0	0	0	0	0
Migrant	Max							
<i>Migrant</i>	<i>Max to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Migrant	Min							
<i>Migrant</i>	<i>Min to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Migrant	Range							
Native Hawaiian or Pacific Islander	Count	0	0	0	0	0	0	0
Native Hawaiian or Pacific Islander	Max							
<i>Native Hawaiian or Pacific Islander</i>	<i>Max to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Native Hawaiian or Pacific Islander	Min							
<i>Native Hawaiian or Pacific Islander</i>	<i>Min to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Native Hawaiian or Pacific Islander	Range							
No Special Ed	Count	17	16	19	18	24	21	22
No Special Ed	Max	2491	2532	2565	2583	2630	2650	2698
<i>No Special Ed</i>	<i>Max to Prof</i>	<i>12</i>	<i>9</i>	<i>13</i>	<i>0</i>	<i>19</i>	<i>0</i>	<i>19</i>
No Special Ed	Min	2401	2414	2467	2507	2511	2543	2561
<i>No Special Ed</i>	<i>Min to Prof</i>	<i>5</i>	<i>7</i>	<i>6</i>	<i>18</i>	<i>5</i>	<i>21</i>	<i>3</i>
No Special Ed	Range	90	118	98	76	119	107	137

Row Labels	Item	ELA03 2432	ELA04 2473	ELA05 2502	ELA06 2531	ELA07 2552	ELA08 2567	ELA11 2583
Not ELL	Count	124	127	137	130	86	91	46
Not ELL	Max	2506	2542	2595	2623	2620	2656	2687
<i>Not ELL</i>	<i>Max to Prof</i>	<i>41</i>	<i>53</i>	<i>77</i>	<i>72</i>	<i>40</i>	<i>49</i>	<i>27</i>
Not ELL	Min	2349	2365	2435	2421	2470	2490	2518
<i>Not ELL</i>	<i>Min to Prof</i>	<i>83</i>	<i>74</i>	<i>60</i>	<i>58</i>	<i>46</i>	<i>42</i>	<i>19</i>
Not ELL	Range	157	177	160	202	150	166	169
Not FRL	Count	73	70	68	62	56	53	45
Not FRL	Max	2519	2542	2594	2594	2631	2656	2691
<i>Not FRL</i>	<i>Max to Prof</i>	<i>50</i>	<i>47</i>	<i>56</i>	<i>49</i>	<i>44</i>	<i>42</i>	<i>36</i>
Not FRL	Min	2371	2423	2449	2455	2495	2482	2489
<i>Not FRL</i>	<i>Min to Prof</i>	<i>23</i>	<i>23</i>	<i>12</i>	<i>13</i>	<i>12</i>	<i>11</i>	<i>9</i>
Not FRL	Range	148	119	145	139	136	174	202
Not Migrant	Count	162	156	156	145	102	98	56
Not Migrant	Max	2506	2542	2592	2623	2620	2656	2687
<i>Not Migrant</i>	<i>Max to Prof</i>	<i>61</i>	<i>66</i>	<i>90</i>	<i>81</i>	<i>50</i>	<i>53</i>	<i>33</i>
Not Migrant	Min	2349	2365	2411	2420	2470	2481	2473
<i>Not Migrant</i>	<i>Min to Prof</i>	<i>101</i>	<i>90</i>	<i>66</i>	<i>64</i>	<i>52</i>	<i>45</i>	<i>23</i>
Not Migrant	Range	157	177	181	203	150	175	214

Row Labels	Item	ELA03 2432	ELA04 2473	ELA05 2502	ELA06 2531	ELA07 2552	ELA08 2567	ELA11 2583
Special Ed	Count	12	7	15	15	20	20	21
Special Ed	Max	2395	2400	2483	2476	2544	2522	2522
<i>Special Ed</i>	<i>Max to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Special Ed	Min	2298	2347	2351	2411	2399	2405	2426
<i>Special Ed</i>	<i>Min to Prof</i>	<i>12</i>	<i>7</i>	<i>15</i>	<i>15</i>	<i>20</i>	<i>20</i>	<i>21</i>
Special Ed	Range	97	53	132	65	145	117	96
White	Count	65	69	58	58	37	39	22
White	Max	2505	2542	2570	2609	2620	2629	2678
<i>White</i>	<i>Max to Prof</i>	<i>26</i>	<i>29</i>	<i>34</i>	<i>32</i>	<i>16</i>	<i>17</i>	<i>15</i>
White	Min	2349	2396	2435	2421	2470	2486	2514
<i>White</i>	<i>Min to Prof</i>	<i>39</i>	<i>40</i>	<i>24</i>	<i>26</i>	<i>21</i>	<i>22</i>	<i>7</i>
White	Range	156	146	135	188	150	143	164

Row Labels	Item	Math03 2436	Math04 2485	Math05 2528	Math06 2552	Math07 2567	Math08 2586	Math11 2628
All Students	Count	170	163	159	150	106	103	59
All Students	Max	2526	2547	2585	2636	2641	2666	2671
All Students	Max to Prof	77	62	41	27	24	24	5
All Students	Min	2364	2393	2411	2385	2442	2431	2461
All Students	Min to Prof	93	101	118	123	82	79	54
All Students	Range	162	154	174	251	199	235	210
American Indian or Alaskan Native	Count	1	0	0	0	0	0	0
American Indian or Alaskan Native	Max	2383						
American Indian or Alaskan Native	Max to Prof	0	0	0	0	0	0	0
American Indian or Alaskan Native	Min	2383						
American Indian or Alaskan Native	Min to Prof	1	0	0	0	0	0	0
American Indian or Alaskan Native	Range	0						
Asian	Count	0	0	0	2	3	3	3
Asian	Max				2595	2620	2649	2699
Asian	Max to Prof	0	0	0	2	2	2	2
Asian	Min				2556	2502	2501	2421
Asian	Min to Prof	0	0	0	0	1	1	1
Asian	Range				39	118	148	278

Row Labels	Item	Math03 2436	Math04 2485	Math05 2528	Math06 2552	Math07 2567	Math08 2586	Math11 2628
Black	Count	2	3	3	2	4	1	1
Black	Max	2350	2448	2517	2439	2534	2372	2426
<i>Black</i>	<i>Max to Prof</i>	0	0	0	0	0	0	0
Black	Min	2344	2360	2389	2399	2432	2372	2426
<i>Black</i>	<i>Min to Prof</i>	2	3	3	2	4	1	1
Black	Range	6	88	128	40	102	0	0
ELL	Count	3	0	0	0	0	1	0
ELL	Max	2429					2444	
<i>ELL</i>	<i>Max to Prof</i>	0	0	0	0	0	0	0
ELL	Min	2355					2444	
<i>ELL</i>	<i>Min to Prof</i>	3	0	0	0	0	1	0
ELL	Range	74					0	
Female	Count	87	89	82	72	69	64	46
Female	Max	2479	2537	2590	2591	2590	2609	2619
<i>Female</i>	<i>Max to Prof</i>	41	34	22	8	14	20	5
Female	Min	2357	2396	2439	2481	2428	2516	2520
<i>Female</i>	<i>Min to Prof</i>	46	55	60	64	55	44	41
Female	Range	122	141	151	110	162	93	99

Row Labels	Item	Math03 2436	Math04 2485	Math05 2528	Math06 2552	Math07 2567	Math08 2586	Math11 2628
FRL	Count	28	30	33	30	17	13	6
FRL	Max	2464	2487	2545	2544	2576	2552	2618
FRL	Max to Prof	8	5	3	0	1	0	0
FRL	Min	2369	2389	2403	2421	2472	2451	2476
FRL	Min to Prof	20	25	30	30	16	13	6
FRL	Range	95	98	142	123	104	101	142
Hispanic	Count	0	0	0	0	1	0	1
Hispanic	Max					2505		
Hispanic	Max to Prof	0	0	0	0	0	0	1
Hispanic	Min					2505		
Hispanic	Min to Prof	0	0	0	0	1	0	1
Hispanic	Range					0		
Male	Count	87	89	82	71	69	63	45
Male	Max	2511	2555	2583	2640	2612	2674	2684
Male	Max to Prof	48	35	26	9	15	11	4
Male	Min	2355	2410	2415	2395	2560	2418	2462
Male	Min to Prof	39	54	56	62	54	52	41
Male	Range	156	145	168	245	52	256	222

Row Labels	Item	Math03 2436	Math04 2485	Math05 2528	Math06 2552	Math07 2567	Math08 2586	Math11 2628
Migrant	Count	0	0	0	0	0	0	0
Migrant	Max							
<i>Migrant</i>	<i>Max to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Migrant	Min							
<i>Migrant</i>	<i>Min to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Migrant	Range							
Native Hawaiian or Pacific Islander	Count	0	0	0	0	0	0	0
Native Hawaiian or Pacific Islander	Max							
<i>Native Hawaiian or Pacific Islander</i>	<i>Max to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Native Hawaiian or Pacific Islander	Min							
<i>Native Hawaiian or Pacific Islander</i>	<i>Min to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Native Hawaiian or Pacific Islander	Range							
No Special Ed	Count	18	17	17	13	24	15	8
No Special Ed	Max	2509	2523	2564	2591	2616	2642	2675
<i>No Special Ed</i>	<i>Max to Prof</i>	<i>16</i>	<i>10</i>	<i>7</i>	<i>0</i>	<i>13</i>	<i>9</i>	<i>4</i>
No Special Ed	Min	2404	2426	2421	2503	2505	2558	2533
<i>No Special Ed</i>	<i>Min to Prof</i>	<i>2</i>	<i>7</i>	<i>10</i>	<i>13</i>	<i>11</i>	<i>6</i>	<i>4</i>
No Special Ed	Range	105	97	143	88	111	84	142

Row Labels Proficiency Score	Item	Math03 2436	Math04 2485	Math05 2528	Math06 2552	Math07 2567	Math08 2586	Math11 2628
Not ELL	Count	125	127	134	128	86	89	46
Not ELL	Max	2526	2547	2585	2636	2641	2665	2671
<i>Not ELL</i>	<i>Max to Prof</i>	<i>52</i>	<i>46</i>	<i>29</i>	<i>24</i>	<i>18</i>	<i>19</i>	<i>3</i>
Not ELL	Min	2364	2393	2417	2424	2442	2469	2482
<i>Not ELL</i>	<i>Min to Prof</i>	<i>73</i>	<i>81</i>	<i>105</i>	<i>104</i>	<i>68</i>	<i>70</i>	<i>43</i>
Not ELL	Range	162	154	168	212	199	196	189
Not FRL	Count	73	68	66	63	54	52	39
Not FRL	Max	2519	2560	2591	2596	2615	2659	2670
<i>Not FRL</i>	<i>Max to Prof</i>	<i>57</i>	<i>40</i>	<i>30</i>	<i>15</i>	<i>22</i>	<i>25</i>	<i>6</i>
Not FRL	Min	2379	2416	2428	2419	2507	2452	2474
<i>Not FRL</i>	<i>Min to Prof</i>	<i>16</i>	<i>28</i>	<i>36</i>	<i>48</i>	<i>32</i>	<i>27</i>	<i>33</i>
Not FRL	Range	140	144	163	177	108	207	196
Not Migrant	Count	163	156	155	143	101	97	56
Not Migrant	Max	2526	2547	2585	2636	2641	2666	2671
<i>Not Migrant</i>	<i>Max to Prof</i>	<i>76</i>	<i>61</i>	<i>41</i>	<i>26</i>	<i>24</i>	<i>23</i>	<i>5</i>
Not Migrant	Min	2364	2393	2411	2385	2442	2431	2461
<i>Not Migrant</i>	<i>Min to Prof</i>	<i>87</i>	<i>95</i>	<i>114</i>	<i>117</i>	<i>77</i>	<i>74</i>	<i>51</i>
Not Migrant	Range	162	154	174	251	199	235	210

Row Labels	Item	Math03 2436	Math04 2485	Math05 2528	Math06 2552	Math07 2567	Math08 2586	Math11 2628
Special Ed	Count	12	8	13	10	20	14	7
Special Ed	Max	2397	2402	2464	2476	2489	2520	2454
<i>Special Ed</i>	<i>Max to Prof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Special Ed	Min	2309	2372	2352	2393	2346	2404	2430
<i>Special Ed</i>	<i>Min to Prof</i>	<i>12</i>	<i>8</i>	<i>13</i>	<i>10</i>	<i>20</i>	<i>14</i>	<i>7</i>
Special Ed	Range	88	30	112	83	143	116	24
White	Count	67	69	58	56	36	39	23
White	Max	2505	2546	2585	2628	2641	2630	2653
<i>White</i>	<i>Max to Prof</i>	<i>34</i>	<i>32</i>	<i>14</i>	<i>10</i>	<i>9</i>	<i>7</i>	<i>4</i>
White	Min	2364	2417	2417	2415	2442	2455	2482
<i>White</i>	<i>Min to Prof</i>	<i>33</i>	<i>37</i>	<i>44</i>	<i>46</i>	<i>27</i>	<i>32</i>	<i>19</i>
White	Range	141	129	168	213	199	175	171