



ELA & Math – NY State Assessment – Individual Student Reports (ITA-ES-18)

Help students own their data. Equip teachers and students with an individualized student reports.

- *Understand how each individual student performed on the assessments, including a breakdown by question type, cluster, heavily weighted standards, and reading passages (ELA)*
- *Identify the easiest question each student got wrong, and the hardest they got right.*

What is This?:

An analysis of your current (school year 2018-2019) 6th graders, results on the 5th grade Math exam in the 2017-2018 school year. The analysis shows results by question type, standard, strand, individual question, and individual students. The analysis highlights the top and bottom performing standards and released questions compared to the city average.

Purpose:

- Better understand your school's results from an instructional point of view – what types of questions and what Common Core standards did students perform strongly or weakly on.
- Facilitate school leader and teacher team data inquiry cycles, by enabling analysis of specific questions from the exam to better understand student misconceptions and identify opportunities to improve instruction
- Clarify the structure of the exams themselves – what percentage of the exams are multiple choice or response questions, or test a particular standard or strand.

When to Use This:

- School Leadership meetings in the Fall
- Professional Development sessions with teaching staff in the Fall

Intended outcome:

- School leaders and faculty have a clear understanding of the question types, standards, and questions that students struggled on and succeeded on
- School leaders and faculty have a clear understanding of the structure of the exams
- Faculty make adjustments to curriculum maps and lesson plans to better focus instruction and identify areas for reteach

Data Inquiry– Group Exercise

Question analysis: *(use a Grade or Class Level Summary)*

1. Form teams of 2-3 teachers. Select the grade or class you want to analyze as a group.
2. Select 2 released questions students performed poorly on, and 1 they performed well on
3. Find these released questions on the exam using the links below
4. Review the questions and discuss with your team. Look up the full text of the standard each question is testing and include in your discussion how the question relates to the standard.
5. For each question, write your answers these questions:
 - a. Why do you think your students struggled or succeeded on this question more than other questions, and more than their peers across the city? Be as specific as possible.
 - b. What changes will you make to address this?
6. Share out the following for the entire group:
 - a. What questions from which tests did you analyze? What standards did they test?
 - b. Why did students struggle or succeed on these questions?
 - c. What changes you are going to make to address this?

Released exam questions	Common Core Standards*	Scoring Materials
NY releases about 75% of the exam questions. The link below will open a PDF file with the questions.	The Coherence Map shows the complete descriptions of the standards, and how they build on each other. Use it to identify the standards that build on your students' strong and weak standards.	Examples of strong and weak answers to each released written response question
2018 5th Grade exam	Coherence Map	2018 5th Grade Exam

*Next Generation Standards - NY state has adopted the [Next Generation Standards](#). However, these standards keep in place much of the current common core standards and will not be reflected on the state tests until 2021.

	2018 6th Grade Math Exam	Last Year's 6th Grade - Summary	545 Students	Math	DP DISTRICT PUBLIC
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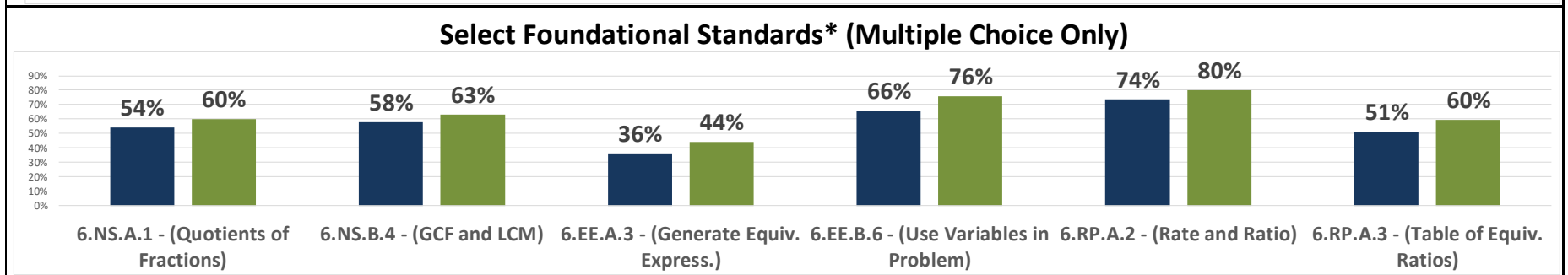
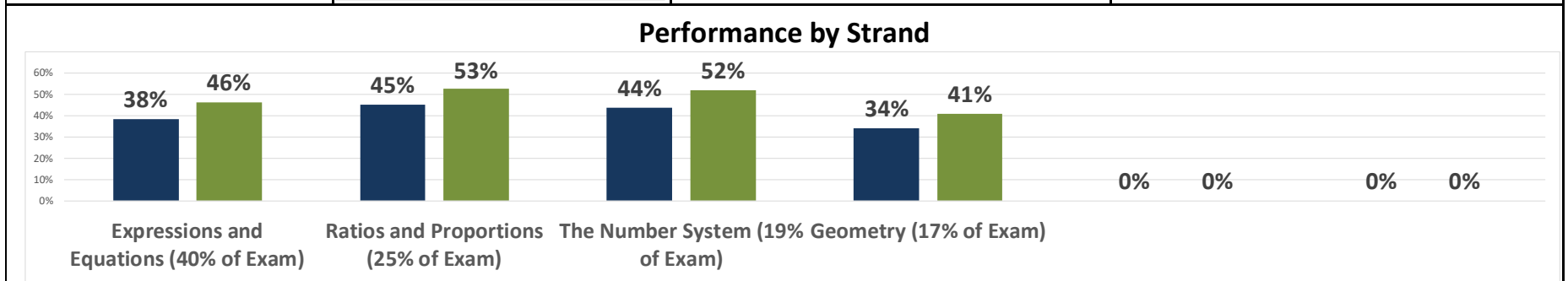
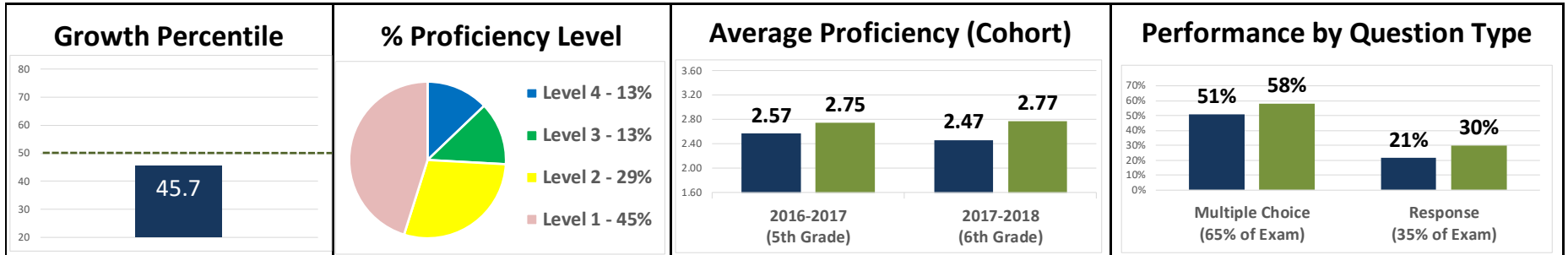
Last Year's Students - Performance on the 6th Grade Math Exam

Legend:

School Avg

City Avg

Performance is based on percentage of possible points



Additional Information - Select Foundational Standards		
	If teaching or reviewing...	Then look to the data for this foundational standard and review questions...
* Select Foundational Standards are key standards from the 6th grade math exam that are foundational for major work the following year(s). Progressions are determined based on the Achieve the Core Coherence * Performance for Select Foundational Standards includes substandards. For example performance for 7.EE.B.4 would include 7.EE.B.4.a and 7.EE.B.4.b, etc.	Number System Unit (7.NS.A.2, 7.NS.A.3)	6.NS.A.1 - (Quotients of Fractions); Released Questions: MC - Q36, CR - Q39
	Expressions and Equations Review (6.EE.3, 6.EE.4)	6.NS.B.4 - (GCF and LCM); Released Questions: MC - Q3;
	Expressions and Equations Unit (7.EE.A.1)	6.EE.A.3 - (Generate Equiv. Express.); Released Questions: MC - Q26,Q37;
	Expressions and Equations Unit (7.EE.B.4, 7.RP.A.2)	6.EE.B.6 - (Use Variables in Problem); Released Questions: MC - Q31
	Ratio and Proportions Unit (7.EE.B.4, 7.RP.A.1, 7.RP.A.2)	6.RP.A.2 - (Rate and Ratio); Released Questions: MC - Q38; CR - Q44
	Ratio and Proportions Unit (7.RP.A.2, 7.RP.A.3)	6.RP.A.3 - (Table of Equiv. Ratios); Released Questions: MC - Q2,Q15,Q19,Q25,Q30; CR - Q41

	2018 6th Grade Math Exam	Last Year's 6th Grade - Standards and Questions	545 Students	Math	DP DISTRICT PUBLIC
Strongest and Weakest Standards and Questions are based on performance vs city		Last Year's Students - Performance on the 6th Grade Math Exam	Total Possible Points on Exam 48		
Highly Weighted Standard			# Scored Questions 39		

Strongest Standards *						
Standard	Standard Description	Released Questions	Possible Points	School Avg	City Avg	School vs City
6.G.A.1	Area of Polygons	Q22	1	36%	39%	-3%
6.RP.A.1	Ratio	Q33	2	68%	72%	-4%
6.EE.B.8	Write Inequalities	Q34	1	63%	67%	-4%
6.NS.C.5	Understand Signed Numbers	Q32	1	77%	81%	-4%
6.G.A.2	Find Volume	Q45	3	23%	28%	-5%
6.NS.B.4	GCF and LCM	Q3	1	58%	63%	-5%
6.EE.B.5	Understand Eq/Inq	Q1	2	57%	62%	-5%
6.EE.C.9	Equation for Relationship	Q4, Q16	2	38%	43%	-5%

* Given the number of standards in Math, data for only includes standards with released questions

Question Not Released

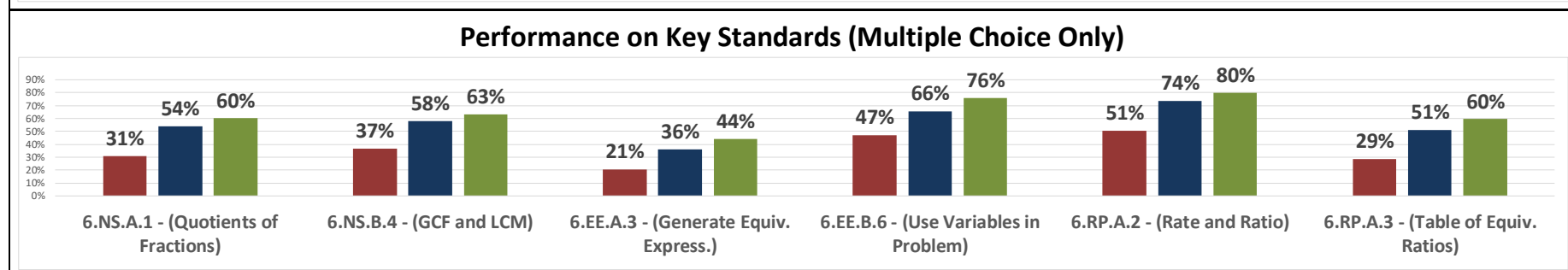
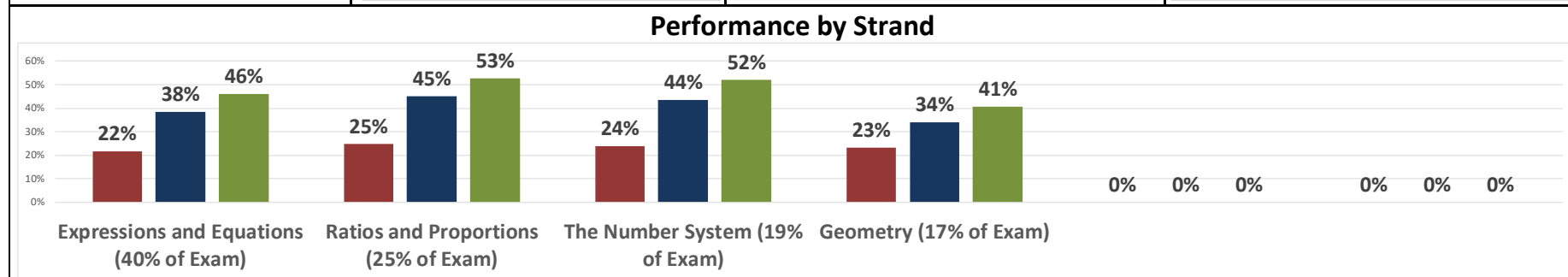
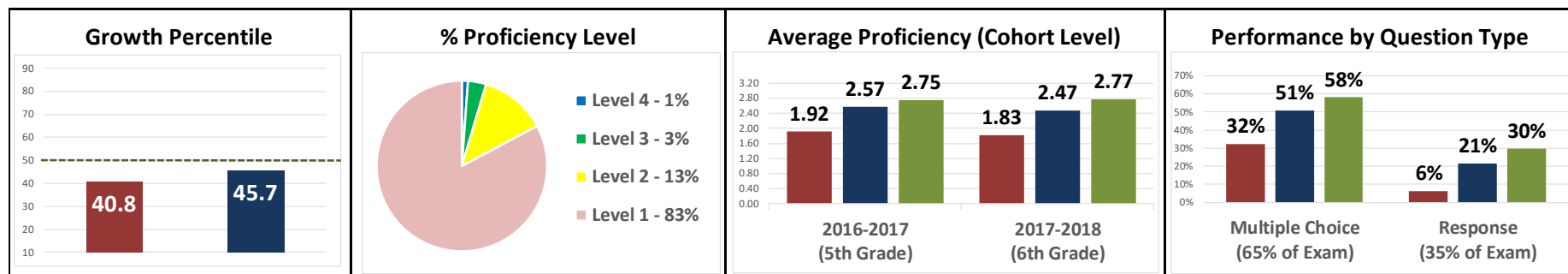
Strongest Questions									
Question Number	Standard	Standard Description	Question Type	Correct Answer	Most Common Incorrect	Possible Points	School Avg	City Avg	School vs City
16	6.EE.C.9	Equation for Relationship	MC	A	C	1	27%	28%	-1%
7	6.RP.A.1	Ratio	MC	B	A	1	69%	71%	-2%
35	6.G.A.3	Polygons with Coordinates	MC	C	D	1	45%	47%	-2%
1	6.EE.B.5	Understand Eq/Inq	MC	C	B	1	78%	80%	-2%
22	6.G.A.1	Area of Polygons	MC	C	D	1	36%	39%	-3%
45	6.G.A.2	Find Volume	CR	N/A	N/A	2	19%	22%	-3%
37	6.EE.A.3	Generate Equiv. Express.	MC	A	D	1	27%	31%	-4%
34	6.EE.B.8	Write Inequalities	MC	B	A	1	63%	67%	-4%
32	6.NS.C.5	Understand Signed Numbers	MC	D	A	1	77%	81%	-4%
24	6.NS.C.6	Number Line w Negatives	MC	D	A	1	50%	55%	-5%
3	6.NS.B.4	GCF and LCM	MC	B	D	1	58%	63%	-5%
15	6.RP.A.3.c	Find Percent as a Rate	MC	D	C	1	36%	41%	-5%
33	6.RP.A.1	Ratio	MC	A	B	1	66%	72%	-6%
46	6.EE.B.7	Equation Problems	CR	N/A	N/A	3	14%	20%	-6%
36	6.NS.A.1	Quotients of Fractions	MC	B	C	1	54%	60%	-6%
38	6.RP.A.2	Rate and Ratio	MC	C	A	1	74%	80%	-6%
19	6.RP.A.3.b	Solve Unit Rate Problems	MC	C	D	1	59%	65%	-6%
21	6.EE.B.5	Understand Eq/Inq	MC	A	B	1	36%	44%	-8%
41	6.RP.A.3.d	Convert Measures w Ratio	CR	N/A	N/A	2	19%	28%	-8%
13	6.G.A.2	Find Volume	MC	A	C	1	33%	41%	-8%

Weakest Standards						
Standard	Standard Description	Released Questions	Possible Points	School Avg	City Avg	School vs City
6.G.A.4	3D Figures Using Nets	Q28	1	40%	53%	-13%
6.NS.C.6.b	Coord Plane: Signed Numbers	Q43	2	19%	33%	-13%
6.EE.A.4	ID Equivalent Expressions	Q29	1	43%	56%	-13%
5.G.A.2	Graphing in first quadrant	Q27	1	33%	44%	-11%
6.EE.B.6	Use Variables in Problem	Q31	1	66%	76%	-10%
6.RP.A.3.a	Table of Equiv. Ratios	Q30	1	52%	61%	-9%
6.RP.A.3.c	Find Percent as a Rate	Q2, Q15	2	43%	52%	-9%
6.EE.A.2.a	Write Expressions	Q40	2	28%	37%	-9%

Weakest Questions									
Question Number	Standard	Standard Description	Question Type	Correct Answer	Most Common Incorrect	Possible Points	School Avg	City Avg	School vs City
28	6.G.A.4	3D Figures Using Nets	MC	D	A	1	40%	53%	-13%
43	6.NS.C.6.b	Coord Plane: Signed Numbers	CR	N/A	N/A	2	19%	33%	-13%
29	6.EE.A.4	ID Equivalent Expressions	MC	C	A	1	43%	56%	-13%
2	6.RP.A.3.c	Find Percent as a Rate	MC	D	A	1	50%	62%	-12%
26	6.EE.A.3	Generate Equiv. Express.	MC	A	B	1	45%	57%	-12%
6	6.EE.A.2.c	Evaluate Expressions	MC	D	A	1	56%	68%	-12%
27	5.G.A.2	Graphing in first quadrant	MC	B	C	1	33%	44%	-11%
31	6.EE.B.6	Use Variables in Problem	MC	C	D	1	66%	76%	-10%
39	6.NS.A.1	Quotients of Fractions	CR	N/A	N/A	2	42%	52%	-10%
4	6.EE.C.9	Equation for Relationship	MC	C	A	1	48%	58%	-10%
44	6.RP.A.2	Rate and Ratio	CR	N/A	N/A	2	19%	29%	-10%
9	6.G.A.3	Polygons with Coordinates	MC	D	A	1	48%	58%	-10%
12	6.NS.C.6.c	Number Line & Coord Plane	MC	C	A	1	31%	40%	-9%
30	6.RP.A.3.a	Table of Equiv. Ratios	MC	A	B	1	52%	61%	-9%
25	6.RP.A.3.b	Solve Unit Rate Problems	MC	B	D	1	60%	69%	-9%
10	6.EE.B.7	Equation Problems	MC	B	C	1	63%	72%	-9%
18	6.EE.A.1	Expression with Exponents	MC	A	B	1	52%	61%	-9%
40	6.EE.A.2.a	Write Expressions	CR	N/A	N/A	2	28%	37%	-9%
42	6.EE.A.1	Expression with Exponents	CR	N/A	N/A	2	14%	23%	-8%
13	6.G.A.2	Find Volume	MC	A	C	1	33%	41%	-8%

2018 6th Grade Math Exam		Last Year's 6th Grade - Subgroups and Classes												Class Level Summary (545 Students)		Math								
Performance is based on percentage of possible points		Last Year's Students - Performance on the 6th Grade Math Exam																						
% of Total Possible Points		Level 4		Level 3		Level 2		Level 1																
General Information					Proficiency				Question Type				Strand						Select Foundational Standards (Multiple Choice Only)					
Subgroup	# Students	IEP	ELL	2016-2017	2017-2018	Growth %tile	Overall	Multiple Choice	Response	Expressio ns and Equations	Ratios and Proportio ns	The Number System	Geometr y			6.NS.A.1 - (Quotients of Fractions)	6.NS.B.4 - (GCF and LCM)	6.EE.A.3 - (Generate Equiv. Express.)	6.EE.B.6 - (Use Variables in Problem)	6.RP.A.2 - (Rate and Ratio)	6.RP.A.3 - (Table of Equiv. Ratios)			
				5th Grade	6th Grade		Exam Weight -->	65%	35%	40%	25%	19%	17%											
Last Year's 6th Grade				545	79	102	2.57	2.47	45.9	40%	51%	21%	38%	45%	44%	34%			54%	58%	36%	66%	74%	51%
Subgroups																								
IEP Students				87	87	22	1.92	1.83	40.8	23%	32%	6%	22%	25%	24%	23%			31%	37%	21%	47%	51%	29%
ELL Students				105	22	105	1.87	1.86	45.0	24%	34%	7%	24%	27%	25%	20%			37%	40%	28%	50%	55%	33%
Black Students				94	17	3	2.48	2.30	40.7	36%	47%	17%	32%	41%	41%	31%			55%	53%	25%	60%	69%	49%
Hispanic Students				228	48	66	2.23	2.15	46.5	32%	43%	13%	31%	37%	35%	26%			46%	50%	33%	61%	67%	43%
Female Students				221	25	36	2.49	2.43	46.0	39%	50%	20%	38%	42%	44%	34%			55%	57%	36%	71%	70%	46%
Male Students				324	62	69	2.62	2.49	45.5	41%	51%	22%	39%	47%	44%	34%			53%	58%	36%	62%	77%	54%
Classes																								
Class 601				30	2		2.68	2.58	44.0	44%	57%	19%	40%	51%	47%	38%			47%	70%	43%	67%	93%	52%
Class 602				31		3	2.49	2.49	51.1	41%	53%	21%	41%	43%	49%	31%			68%	58%	47%	71%	71%	52%
Class 603				26		1	2.53	2.24	37.8	35%	46%	15%	32%	41%	41%	27%			46%	73%	15%	58%	65%	48%
Class 604				29			2.62	2.60	47.3	43%	55%	23%	38%	55%	46%	34%			72%	59%	31%	69%	86%	60%
Class 605				28			2.59	2.41	35.9	40%	50%	21%	36%	42%	52%	33%			57%	64%	32%	75%	75%	44%
Class 606				27	1		2.92	2.85	45.5	50%	62%	28%	50%	54%	50%	44%			81%	52%	35%	74%	85%	65%
Class 607				30			2.80	2.76	47.3	47%	59%	26%	47%	50%	49%	40%			53%	60%	53%	87%	77%	56%
Class 608				29	1		2.47	2.27	39.4	36%	47%	15%	33%	45%	36%	29%			48%	48%	38%	52%	79%	51%
Class 609				25			2.64	2.56	49.0	43%	54%	22%	39%	50%	49%	35%			56%	68%	34%	72%	88%	53%
Class 610				24	5		3.25	3.28	58.8	62%	72%	45%	60%	66%	71%	51%			71%	71%	50%	83%	83%	75%
Class 611				28	9		3.16	3.15	52.7	57%	66%	41%	56%	63%	60%	50%			64%	79%	39%	75%	89%	67%
Class 612				29	13		3.04	3.01	51.1	55%	64%	40%	54%	59%	59%	49%			69%	69%	45%	83%	79%	66%
Class 613				26	9	9	2.96	2.82	48.4	51%	59%	35%	50%	53%	53%	49%			65%	69%	44%	73%	81%	60%
Class 614				20		20	1.80	1.84	47.0	24%	33%	6%	22%	30%	25%	18%			40%	35%	33%	25%	50%	37%
Class 615				27	1	27	1.93	1.90	41.4	26%	36%	7%	27%	30%	22%	21%			33%	30%	28%	52%	63%	37%
Class 616				34	1	32	1.95	1.95	46.4	27%	35%	10%	27%	25%	29%	24%			50%	47%	28%	65%	53%	29%
Class 618				13	13		1.66	1.56	28.2	16%	22%	4%	15%	17%	16%	16%			15%	23%	8%	38%	38%	20%
Class 619				13	13	7	1.72	1.75	49.2	21%	30%	4%	20%	19%	24%	22%			23%	54%	15%	31%	38%	26%
Class 620				11	11	3	1.80	1.52	17.8	15%	22%	2%	13%	16%	15%	18%			36%	27%	18%	18%	27%	20%
Class 622				25			2.64	2.56	46.5	43%	55%	20%	39%	54%	45%	33%			56%	72%	40%	60%	88%	61%
Class 623				27			2.72	2.42	42.7	39%	50%	19%	37%	49%	40%	28%			37%	56%	41%	81%	78%	56%

	Current 7th Grade	2018 6th Grade Math Exam	IEP Students - Summary	87 Students	Math	DP DISTRICT PUBLIC
Current Students (18-19) - Performance on the 6th Grade Math Exam						
Legend:	IEP Students	School Avg	City Avg	Performance is based on percentage of possible points		



Additional Information - Select Foundational Standards		
	<u>If teaching or reviewing...</u>	<u>Then look to the data for this foundational standard and review questions...</u>
* Select Foundational Standards are key standards from the 6th grade math exam that are foundational for major work the following year(s). Progressions are determined based on the Achieve the Core Coherence Map. * Performance for Select Foundational Standards includes substandards. For example performance for 7.EE.B.4 would include 7.EE.B.4.a and 7.EE.B.4.b, etc.	Number System Unit (7.NS.A.2, 7.NS.A.3)	6.NS.A.1 - (Quotients of Fractions); Released Questions: MC - Q36, CR - Q39
	Expressions and Equations Review (6.EE.3, 6.EE.4)	6.NS.B.4 - (GCF and LCM); Released Questions: MC - Q3;
	Expressions and Equations Unit (7.EE.A.1)	6.EE.A.3 - (Generate Equiv. Express.); Released Questions: MC - Q26,Q37;
	Expressions and Equations Unit (7.EE.B.4, 7.RP.A.2)	6.EE.B.6 - (Use Variables in Problem); Released Questions: MC - Q31
	Ratio and Proportions Unit (7.EE.B.4, 7.RP.A.1, 7.RP.A.2)	6.RP.A.2 - (Rate and Ratio); Released Questions: MC - Q38; CR - Q44
	Ratio and Proportions Unit (7.RP.A.2, 7.RP.A.3)	6.RP.A.3 - (Table of Equiv. Ratios); Released Questions: MC - Q2,Q15,Q19,Q25,Q30; CR - Q41

Current 7th Grade		2018 6th Grade Math Exam	IEP Students - Students										Student Level Summary (87 Students)		Math	DP
Performance is based on percentage of possible points			Current Students (18-19) - Performance on the 6th Grade Math Exam													
% of Total Possible Points			Level 4	Level 3	Level 2	Level 1										

General Information			Proficiency				Question Type			Strand						Select Foundational Standards (Multiple Choice Only)					
Student Name	IEP	ELL	2016-2017	2017-2018	Growth %tile	Points to Next Level	Overall	Multiple Choice	Response	Expressions and Equations	Ratios and Proportions	The Number System	Geometry			6.NS.A.1 - (Quotients of Fractions)	6.NS.B.4 - (GCF and LCM)	6.EE.A.3 - (Generate Equiv. Express.)	6.EE.B.6 - (Use Variables in Problem)	6.RP.A.2 - (Rate and Ratio)	6.RP.A.3 - (Table of Equiv. Ratios)
			5th Grade	6th Grade			Exam Weight -->	65%	35%	40%	25%	19%	17%								
IEP Students Average			1.96	1.90	43		25%	34%	8%	23%	28%	25%	24%			26%	31%	21%	60%	51%	34%

	1		3.48	4.17	98		90%	94%	82%	84%	100%	100%	75%			100%	100%	50%	100%	100%	100%
	1		2.88	3.83	90	2	69%	84%	41%	68%	100%	56%	38%			0%	100%	100%	100%	100%	100%
	1		2.68	2.92	66	1	50%	71%	12%	47%	42%	56%	63%			100%	0%	50%	100%	100%	40%
	1		2.52	2.50	50	5	42%	55%	18%	42%	33%	33%	63%			0%	0%	50%	100%	100%	20%
	1		2.32	2.25	51	7	38%	58%	0%	37%	58%	11%	38%			0%	0%	50%	100%	100%	80%
	1		2.00	2.00	52	9	33%	48%	6%	42%	33%	22%	25%			0%	0%	100%	100%	0%	60%
	1		1.50	2.00	95	9	33%	42%	18%	32%	25%	56%	25%			100%	100%	0%	0%	100%	20%
	1		2.60	1.97	17	1	31%	39%	18%	26%	42%	56%	0%			0%	100%	0%	100%	100%	40%
	1	1	1.64	1.97	92	1	31%	48%	0%	37%	25%	44%	13%			100%	100%	50%	0%	0%	40%
	1		1.97	1.91	37	3	27%	35%	12%	21%	50%	22%	13%			0%	0%	0%	100%	100%	60%
	1	1	1.64	1.91	86	3	27%	42%	0%	21%	50%	33%	0%			100%	100%	0%	100%	100%	80%
	1	1	1.77	1.91	76	3	27%	39%	6%	32%	25%	11%	38%			0%	100%	50%	100%	100%	20%
	1		1.93	1.88	40	4	25%	39%	0%	21%	42%	11%	25%			100%	0%	50%	0%	100%	60%
	1	1	1.57	1.84	75	5	23%	26%	18%	26%	17%	22%	25%			0%	0%	50%	100%	100%	0%
	1		1.92	1.80	28	6	21%	29%	6%	11%	25%	22%	38%			0%	0%	0%	0%	100%	0%
	1		1.87	1.80	36	6	21%	32%	0%	16%	17%	22%	38%			0%	0%	0%	100%	0%	40%
	1		1.73	1.80	57	6	21%	29%	6%	11%	42%	22%	13%			0%	0%	0%	100%	100%	40%
	1	1	1.69	1.80	59	6	21%	32%	0%	26%	17%	11%	25%			0%	100%	0%	100%	0%	20%
	1		1.77	1.73	42	7	19%	29%	0%	16%	25%	11%	25%			0%	0%	0%	0%	100%	20%
	1		1.69	1.73	50	7	19%	19%	18%	16%	8%	33%	25%			0%	100%	0%	100%	0%	0%
	1		1.92	1.73	20	7	19%	26%	6%	21%	25%	11%	13%			0%	0%	0%	100%	100%	20%
	1		1.50	1.67	53	8	17%	23%	6%	16%	8%	22%	25%			0%	0%	50%	100%	0%	20%
	1	1	1.77	1.67	32	8	17%	26%	0%	16%	17%	33%	0%			0%	100%	0%	100%	100%	20%
	1			1.67		8	17%	26%	0%	11%	8%	11%	50%			100%	0%	50%	0%	0%	20%
	1		1.57	1.67	47	8	17%	26%	0%	21%	33%	0%	0%			0%	0%	0%	100%	100%	60%
	1		2.00	1.67	6	8	17%	26%	0%	16%	33%	11%	0%			100%	0%	0%	100%	0%	40%
	1		3.15	1.58	0	9	15%	16%	12%	5%	25%	11%	25%			0%	0%	0%	0%	0%	40%
	1		1.69	1.58	28	9	15%	23%	0%	5%	17%	11%	38%			0%	0%	0%	0%	0%	40%
	1	1	2.40	1.42	1	10	13%	19%	0%	16%	0%	22%	13%			0%	0%	0%	0%	0%	0%
	1		1.45	1.42	30	10	13%	19%	0%	16%	8%	11%	13%			0%	0%	0%	0%	0%	0%
	1	1	1.73	1.42	17	10	13%	13%	12%	5%	8%	33%	13%			0%	0%	0%	0%	0%	20%
	1		1.69	1.36	12	11	10%	16%	0%	5%	8%	11%	25%			0%	0%	0%	0%	0%	20%
	1		1.34	1.36	19	11	10%	16%	0%	11%	8%	0%	25%			0%	0%	0%	100%	0%	20%
	1		1.50	1.28	7	12	8%	13%	0%	11%	8%	0%	13%			0%	0%	50%	0%	0%	20%
	1		1.77	1.28	4	12	8%	13%	0%	0%	8%	33%	0%			100%	100%	0%	0%	0%	0%