

SCHOOL PERFORMANCE^{A+}

A Brief Guide to Building Systems for Data-Driven Instruction

*Helping schools make the relentless pursuit of excellence
a matter of habit.*

SCHOOL PERFORMANCE^{A+}

School Performance Builds Diagnostic Assessments That:

- Our schools give 5 or 6 times per year
- Are scored, analyzed and disaggregated within a week
- Follow a school's scope and sequence
- Align to the assessments in a school's accountability matrix (state test + nationally normed test + other)

Diagnostic Assessments: Language Arts

Directions Read this story about Coyote, Porcupine, and Brother Skunk. Then answer Numbers 6 through 10. You may look back at the story.

The Beautiful Dream

One day many centuries ago, Coyote was hanging around.

Coyote always liked to plan something tricky, so this day he went walking with Porcupine and Brother Skunk. He was thinking as he walked along.

Ahead of them a wagon was going down a road. They saw a piece of meat fall off. They all ran for it and they all got there about the same time.

But Coyote did not want to share the meat so he said, "Let's have a contest to see who gets the meat."

He suggested they all race down a hill and the winner would eat the meat by himself. The other animals agreed. They left the meat in a tree to protect it.

When the race started, Porcupine curled up and rolled down the hill. He won.

"That's not fair," Coyote said. "Let's try something different."

He said, "The one who dreams the most beautiful dream will eat that meat."

The other animals agreed.

Coyote and Skunk went to sleep but Porcupine stayed awake. He had a plan of his own.

Finally Coyote and Skunk woke up and told their dreams. They were both beautiful dreams.

century = one hundred years

Then they asked Porcupine what he had dreamed.

Porcupine said, "I dreamed I ate the meat."

They all jumped up and looked in the tree where they had left the meat. The meat was gone. Porcupine just smiled.



6 Which of these could also be a title for the story?

- Porcupine Forgets to Sleep
- Porcupine Helps His Friend
- Porcupine Tricks Coyote and Skunk
- Porcupine Makes Friends with Coyote and Skunk

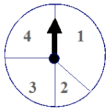
7 This story teaches a lesson. What lesson does Coyote learn?

- If you try to trick people, they may trick you back.
- It is best to have beautiful dreams.
- Climbing trees can be dangerous.
- Never walk behind a wagon.

Go On →

Diagnostic Assessments: Math

34



Look at the spinner. On which number will the spinner most likely stop?

- 1
- 2
- 3
- 4

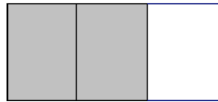
35

Derrick's Cards	
Number of Cards	Color
7	blue
12	black
16	green
9	yellow

If Derrick picks one card without looking, what color card will he least likely pick?

- blue
- black
- green
- yellow

36



What fraction shows the shaded part of the figure?

- $\frac{1}{3}$
- $\frac{3}{4}$
- $\frac{3}{2}$
- $\frac{2}{3}$

37



If the car is 9 feet long, about how long is the school bus?

- 7 feet
- 9 feet
- 50 feet
- 15 feet

Go On →

58

Mabel has a bag of gumdrops. She has 2 yellow, 3 red, 1 orange, and 4 green gumdrops. Mabel will pick one gumdrop from the bag without looking. Which color is she *most likely* to pick?



Answer _____

On the lines below, explain how you found your answer. Write a complete sentence. Be sure to use correct capitalization and punctuation.





Six Keys to Effective Diagnostic Assessments

- **Spend Your Time Aligning**
 - Test for Mastery *and* Retention
 - Frequent and Fast Data
 - Make the Data Useful
 - This is a Cultural Revolution
 - Harness the Power of Network



Spend Your Time Aligning

- Align to the format, level and weight of tests.
- Align to the state test, plus (level three is not sufficient; signal your broader interest)

A Gallery of NYS 4th Grade Math Problems

4 There are 8 chairs at each table in a cafeteria. There are 96 chairs in all. Which number sentence can be used to find the number of tables in the cafeteria?

F $8 \times 96 = \square$

G $96 - \square = 8$

H $8 + \square = 96$

J $96 \div 8 = \square$

17 Mr. Collins chopped 18 logs. He chopped each log into 6 pieces of firewood. How many pieces of firewood did Mr. Collins chop?

A 3

B 24

C 68

D 108

18 Which statement is correct?

F $(4 \times 6) \times 3 = 4 \times (6 \times 3)$

G $(4 \times 6) \times 3 = 4 \times (6 + 3)$

H $(4 \times 6) \times 3 = (4 \times 6) + 3$

J $(4 \times 6) \times 3 = (4 + 6) \times 3$

Ronald's apartment building has 17 apartments on each floor. There are 6 floors in the building. What is the total number of apartments in Ronald's apartment building?

Show your work.

Answer _____ apartments

Build or Buy? Two reasons to Build*

Alignment

"Aligned to your standards"... and what else?
"Aligned to your standards"... but not your test.

Buying is Outsourcing

Outsource technical competencies that are not central to your mission.

Keep in-house what's central to your work so you can develop your own knowledge about it.

Do you really want to outsource deep knowledge about the skills and content your students need to master?



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Make the Data Useful

2nd Grade Girls Mathematics			2-D Figures	Addition	Money	Time	Congruence	Graphs & Charts	Calendar	3-D Figures	Visual Patterns
Last Name	First Name	Overall	7	6	6	4	4	4	4	2	1
	Kendra	97%	100%	100%	100%	100%	100%	100%	80%	100%	100%
	Amirah	97%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Leem	95%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Ali-Ajah	89%	100%	83%	67%	100%	100%	100%	100%	100%	100%
	Daveisha	87%	86%	100%	50%	100%	100%	75%	60%	100%	100%
	Milasia	87%	86%	100%	67%	50%	100%	100%	80%	100%	100%
	Imani	84%	86%	83%	67%	100%	100%	100%	100%	100%	100%
	Kayla	84%	100%	83%	33%	100%	100%	100%	100%	100%	100%
	Destiny	84%	100%	100%	50%	50%	100%	100%	40%	100%	100%
	Nyquest	82%	86%	100%	67%	100%	75%	100%	80%	100%	0%
	Symonea	82%	86%	100%	50%	50%	100%	100%	100%	100%	100%
	Nyla	74%	71%	83%	33%	50%	100%	100%	80%	100%	100%
	Ahzheona	74%	100%	83%	33%	50%	100%	50%	60%	100%	100%
	Karin	68%	43%	83%	50%	75%	75%	75%	100%	100%	100%
	Cyrena	68%	71%	83%	33%	75%	75%	75%	60%	100%	100%
	Jasmine	68%	71%	83%	50%	50%	75%	75%	40%	100%	100%
	Ziaire	66%	86%	67%	33%	75%	50%	50%	60%	100%	100%
	Shadajah	66%	71%	83%	33%	50%	100%	50%	60%	100%	100%
	Naikeyia	63%	71%	100%	17%	50%	50%	100%	40%	100%	0%
	Angel	63%	71%	83%	17%	25%	100%	75%	80%	100%	100%
	Akayla	58%	57%	67%	33%	50%	75%	50%	40%	100%	100%
	Tyquajah	55%	71%	83%	33%	50%	75%	50%	40%	50%	100%
	Carmela	50%	86%	67%	33%	50%	75%	50%	40%	50%	0%
	Naviya	50%	29%	67%	33%	50%	75%	75%	60%	100%	100%
	Jasmine	39%	57%	33%	0%	0%	50%	75%	20%	100%	0%
2nd Grade Girls		73%	79%	83%	45%	63%	83%	69%	81%	96%	84%
All 2nd Graders		71%	74%	81%	44%	62%	81%	72%	77%	91%	88%

Ready for a challenge

Needs a day of tutoring

Needs a tutor every day

Make the Data Useful

2nd Grade Girls Mathematics			2-D Figures	Addition	Money	Time	Congruence	Graphs & Charts	Calendar	3-D Figures	Visual Patterns
Last Name	First Name	Overall	7	6	5	4	4	4	4	2	1
	Kendra	97%	100%	100%	83%	100%	100%	100%	80%	100%	100%
	Amirah	97%	100%	83%	100%	100%	100%	100%	100%	100%	100%
	Leem	95%			83%	75%	100%	100%	100%	100%	100%
	Ali-Ajah	89%	Re-Teach!		67%	100%	100%	100%	100%	100%	100%
	Daveisha	87%			50%	100%	100%			100%	100%
	Milasia	87%	86%	100%	67%	50%	100%	Replicate!		100%	100%
	Imani	84%	86%	83%	67%	75%	100%			100%	100%
	Kayla	84%	100%	83%	33%	100%	75%	100%	80%	100%	100%
	Destiny	84%	100%	100%	50%	50%	100%	100%	40%	100%	100%
	Nyquest	82%	86%	100%	67%	100%	75%	100%	80%	100%	0%
	Symonea	82%	86%	100%	50%	50%	100%	100%	100%	100%	100%
	Nyla	74%	71%	83%	33%	50%	100%	100%	80%	100%	100%
	Ahzheona	74%	100%	83%	33%	50%	100%	50%	60%	100%	100%
	Karin	68%	43%	83%	50%	75%	75%	75%	100%	100%	100%
	Cyrena	68%	71%	83%	33%	75%	75%	75%	60%	100%	100%
	Jasmine	68%	71%	83%	50%	50%	75%	75%	40%	100%	100%
	Ziaire	66%	86%	67%	33%	75%	50%	50%	60%	100%	100%
	Shadajah	66%	71%	83%	33%	50%	100%	50%	60%	100%	100%
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	Angel	63%	71%	83%	17%	25%	100%	75%	80%	100%	100%
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	Tyquajah	55%	71%	83%	17%	50%	50%	25%	40%	50%	100%
	Carmela	50%	86%	67%	17%	25%	50%	75%	40%	50%	0%
	Naviya	50%	29%	50%	33%	50%	75%	75%	60%	100%	100%
	Jasmine	39%	57%	33%	0%	0%	50%	75%	20%	100%	0%
2nd Grade Girls		73%	79%	83%	45%	63%	83%	69%	81%	96%	84%
All 2nd Graders		71%	74%	81%	44%	62%	81%	72%	77%	91%	88%

Make the Data Useful

Item No.	Standard	Correct Ans	% Correct	Total A	Total B	Total C	Total D
50c	Apostrophe	A	15%	11	0	0	0
51c	Apostrophe	A	39%	28	1	0	0
61	Apostrophe	B	53%	4	38	15	14
19	Author's Purpose	B	31%	41	22	3	6
4	Author's Purpose	C	38%	0	0	0	0
30	Author's Purpose	C	60%	0	0	0	0
71	Capitalization	D	53%	6			
78	Capitalization	A	65%	47			
50d	Capitalization	A	69%	50			
40	Character Attributes & Perspective	C	42%	17			
44	Character Attributes & Perspective	B	60%	18			
43	Character Attributes & Perspective	D	61%	17	6	5	44
33	Character Attributes & Perspective	D	64%	10	9	7	46
5	Character Attributes & Perspective	B	65%	3	47	17	4
2	Character Attributes & Perspective	A	85%	61	3	2	6
8	Character Attributes & Perspective	C	85%	4	4	61	3
21S	Character Attributes & Perspective	A	86%	62	10	0	0
27	Character Attributes & Perspective	B	89%	5	64	1	2

63% of kids who got #44 wrong chose A.

That's an information gold mine!

Make the Data Useful

- 54 Which of the following is the best way to round

$$17 + 43 + 88$$

- 10 + 40 + 80
- 10 + 40 + 90
- 20 + 40 + 90
- 20 + 50 + 90

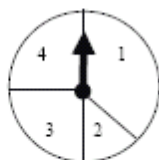
	Boys	Girls	Total
A	4	6	10
B	2	1	3
C	14	15	29
D	1	1	2
E	0	0	0
None	0	0	0
Mult.	0	0	0

- 33 What word has the same middle sound as beat?

- her
- queen
- there
- heart

	Boys	Girls	Total
A	1	1	2
B	8	11	19
C	0	0	0
D	9	5	14
E	0	0	0
None	0	1	1
Mult.	0	0	0

34



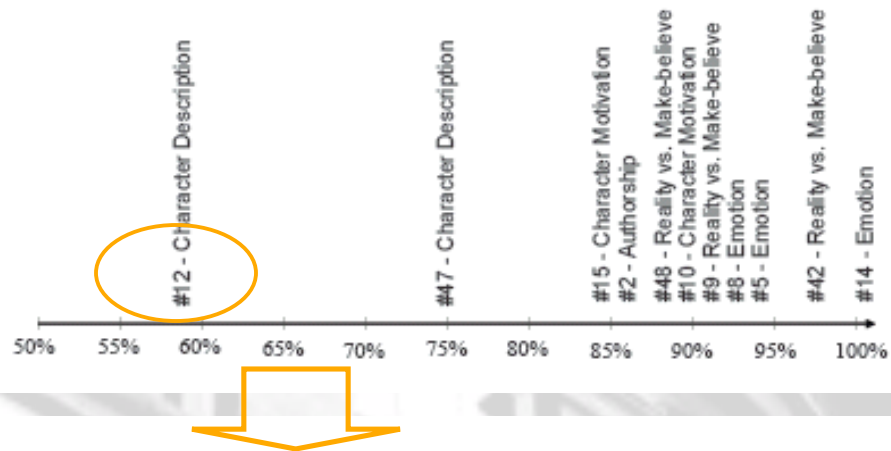
Look at the spinner. On which number will the spinner most likely stop?

- 1
- 2
- 3
- 4

	Boys	Girls	Total
A	17	18	35
B	1	0	1
C	0	2	2
D	2	3	5
E	0	0	0
None	1	0	1
Mult.	0	0	0

Make the Data Useful

Making Inferences - 88%



12

Which of these best describes Frederick?

He is a boy with

- a big imagination.
- a collection of big animals in his house.
- an alligator farm.
- a friend named Sue.

	Boys	Girls	Total
A	11	10	21
B	7	7	14
C	0	1	1
D	0	0	0
E	0	0	0
None	0	0	0
Mult.	0	0	0



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This is a Cultural Revolution

- It's a cultural revolution not a technological one.
- You can do almost everything you need to do with pencil and paper.
- "You've parked an F-15 in the parking lot, but I just want to get downtown. I want the bus back!"



Your Assessments Can Be Professional Quality ... Or Not

You can get amazing value out of a simple tool.

Do not let the perfect be the enemy of the good.

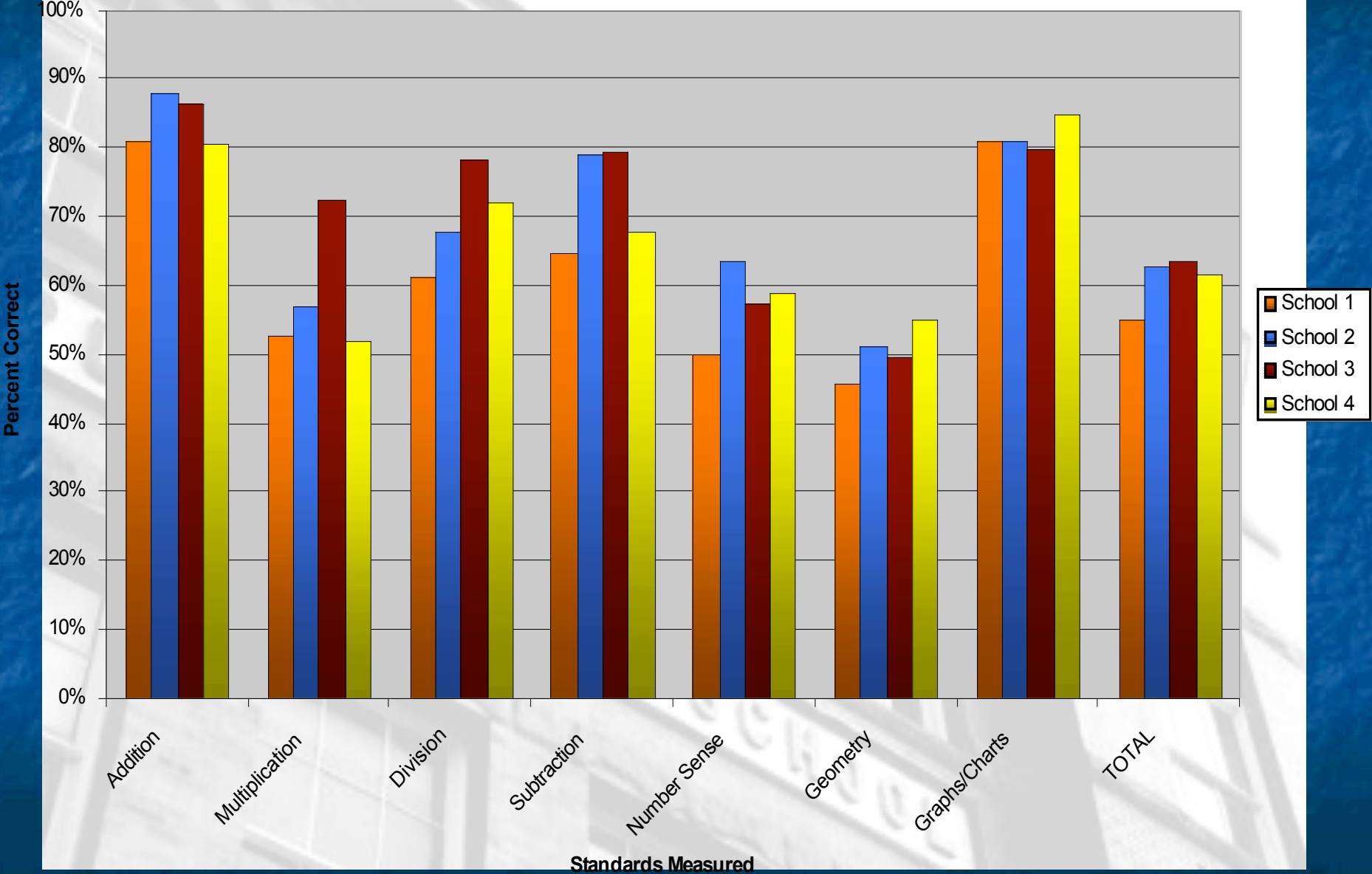
Start now.



Six Keys to Effective Diagnostic Assessments

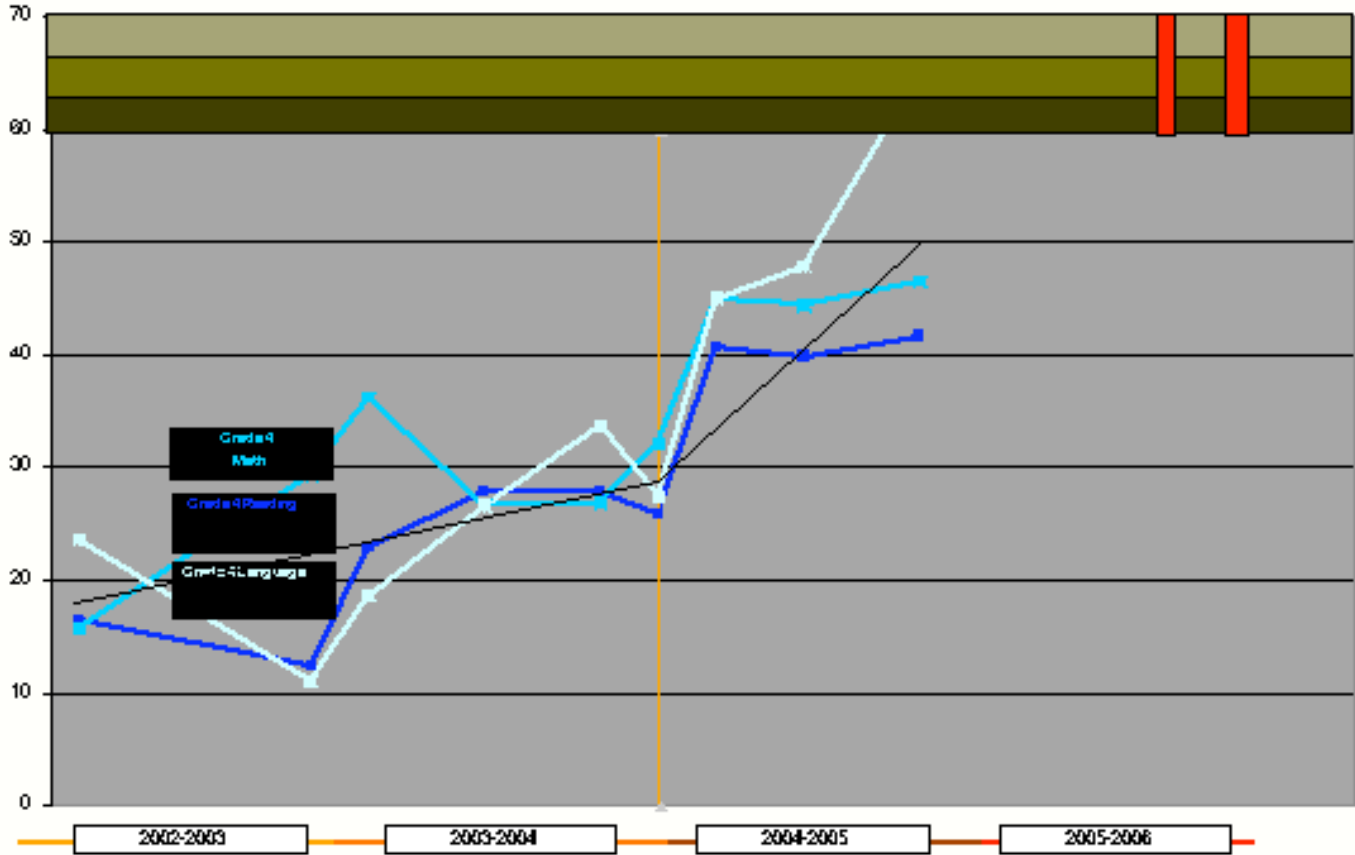
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Grade 5 DA2 Math Results Comparison



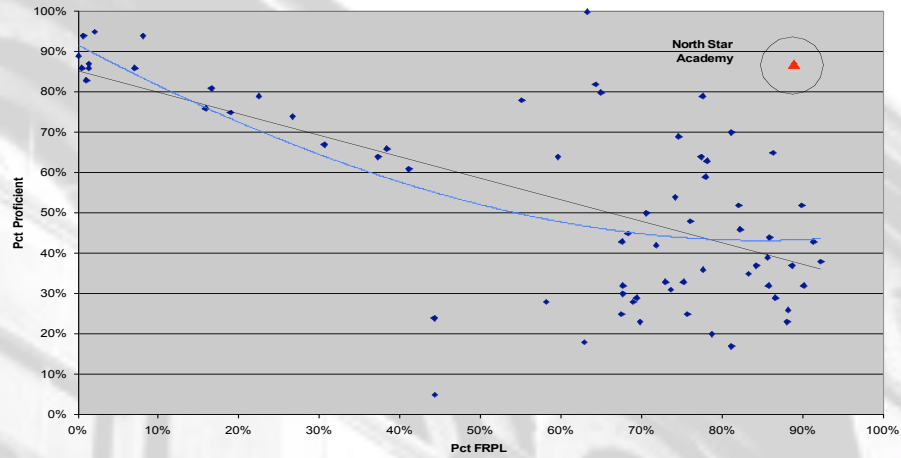
Does It Work?

Progress of Current BCCS 4th Grade Over Time

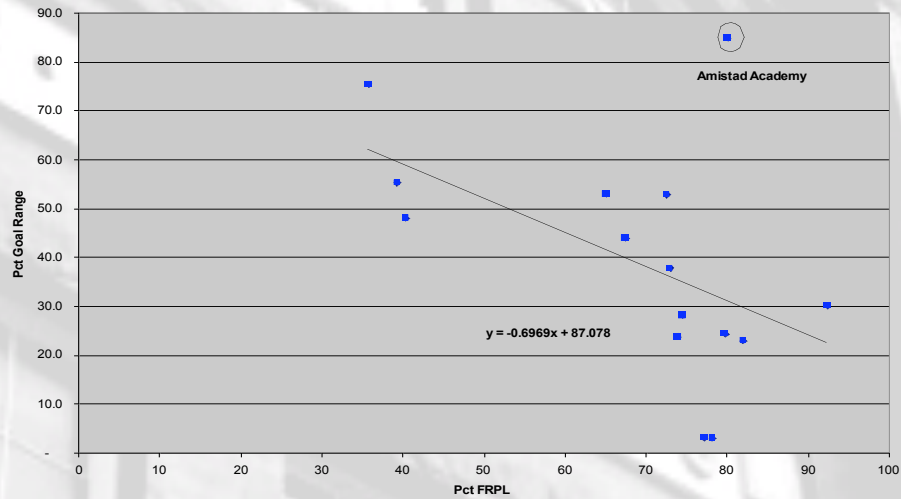


Does it Work?

New Jersey ELA Proficiency vs FRPL



New Haven Public Schools 03 Grade 8 Writing



Does it Work?

Darryl Williams' 2004-2005 Mean Percentile Gains:

Reading 21.3	Language 32.8
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