

INTRODUCTION TO GROWTH PERCENTILES

Last updated: November 4, 2011

EMS Student Performance and Progress

- The Progress Report rewards progress for students at all levels of performance

Scaled scores

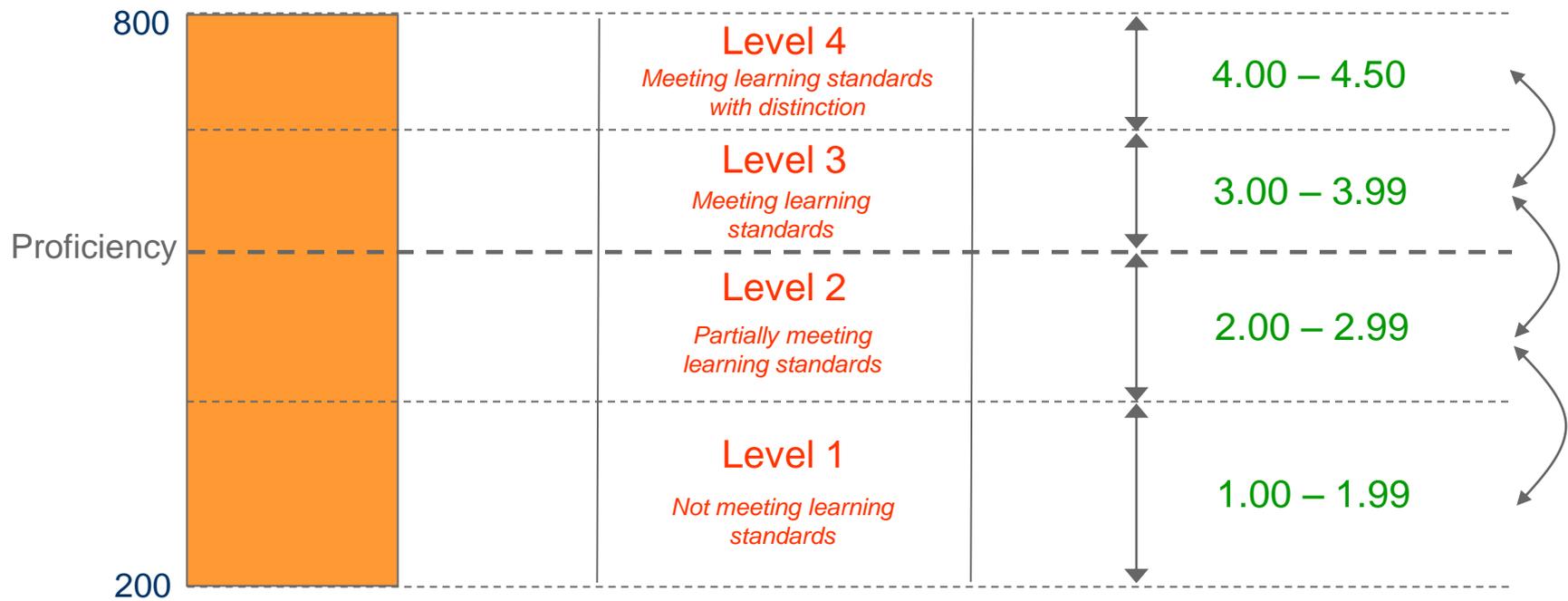
State ELA and Math tests are graded on a scale of 200 to 800

Performance levels

The State decides what scaled scores correspond to each performance level (1, 2, 3, or 4)

Proficiency Ratings

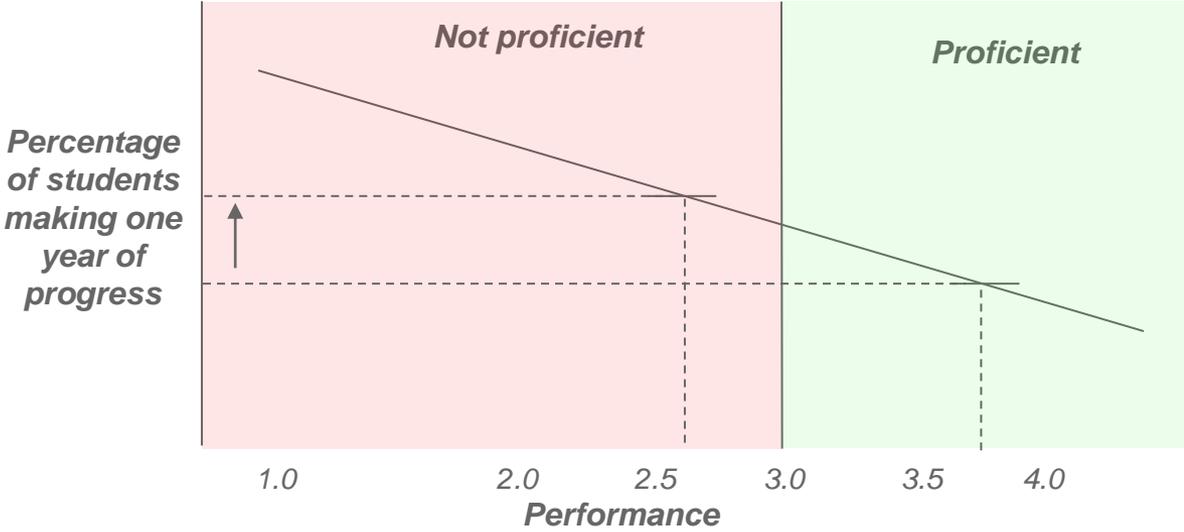
The City uses a more precise translation to distinguish among students at each performance level



Different cohorts of students

Same cohorts of students

The Progress-Performance Relationship: More low performing students make one year of progress than high performing students



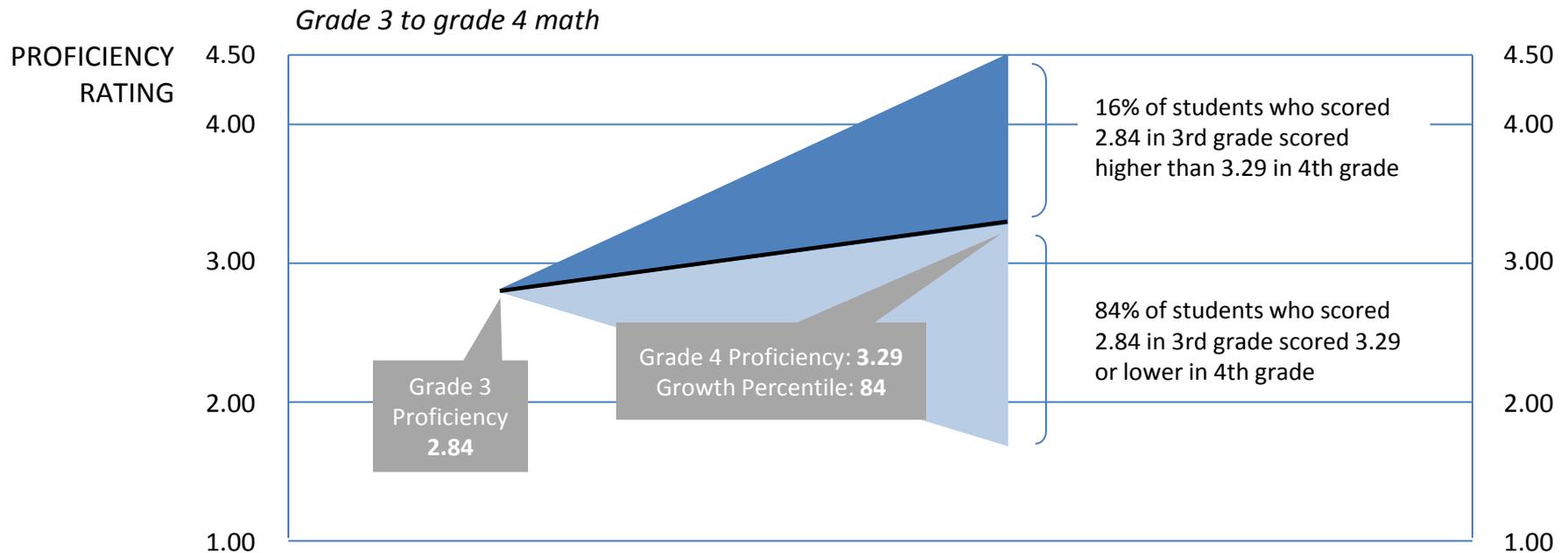
Growth percentiles defined

A student's growth percentile compares his or her growth to the growth of all students in the City who started at the same level of proficiency the year before

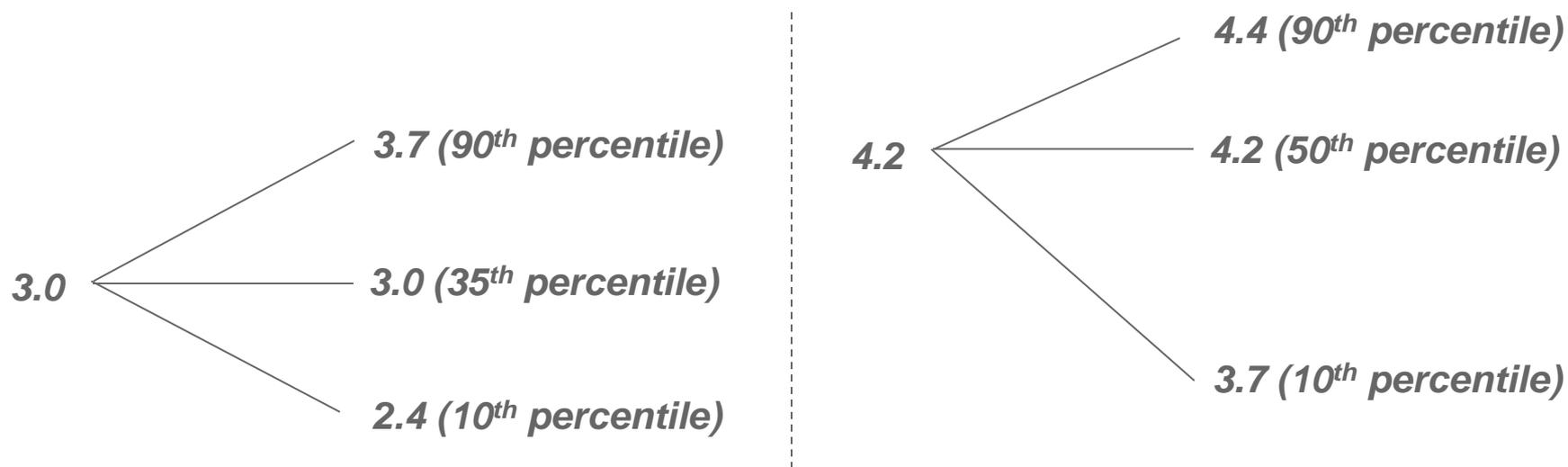
A 50th percentile outcome means that a student made more growth than 50% of the students who started at the same place

Growth percentiles control for a student's starting proficiency

A student with a growth percentile of 84 earned a score on this year's test that was the same or higher than 84 percent of the students in the City who had the same score last year



Growth percentiles measure progress on the same scale even if students start from different places



Going from a 3.0 to a 3.0 may be a 35th percentile outcome, while going from a 4.2 to a 4.2 may be a 50th percentile outcome.

Calculating Growth Percentile

Scenario:

A student scores a 2.21 on the 2010 5th Grade ELA Exam

The same student scores a 2.61 on the 2011 6th Grade ELA Exam

What is this student's Growth Percentile for 2010-2011?

2011 6th Grade ELA Rating	2010 5th Grade ELA Rating								
	1.93	1.95	1.97	1.98	1.99	2.05	2.21	2.32	2.47
1.75	1	1	1	0	0	0	0	0	0
1.79	2	3	1	1	0	0	0	0	0
1.82	3	3	2	1	1	0	0	0	0
1.84	5	4	2	1	1	0	1	0	0
1.86	7	6	4	3	2	1	1	1	0
1.87	8	6	4	3	2	1	1	1	0
1.89	14	10	7	5	3	2	2	1	1
1.90	17	14	9	7	4	3	2	2	1
1.91	24	19	14	11	8	5	4	2	2
1.93	33	28	21	16	13	8	7	4	3
1.95	45	37	28	23	19	13	10	6	4
1.96	54	46	36	31	27	19	15	11	7
1.98	61	53	47	39	34	25	20	15	11
1.99	70	63	55	49	43	33	27	21	15
2.00	73	67	60	54	46	38	31	24	18
2.11	80	73	68	63	55	47	39	32	24
2.17	84	76	71	66	60	52	43	36	28
2.28	90	82	79	75	68	60	53	44	36
2.39	94	87	86	81	75	69	62	54	46
2.5	96	92	90	88	82	77	71	63	56
2.61	96	94	92	90	85	80	75	68	61
2.72	98	96	95	94	90	87	83	76	69
2.83	99	98	97	97	94	92	89	84	79
3.00	99	99	99	98	97	96	93	90	86
3.09	100	99	99	99	98	97	96	94	92
3.22	100	100	100	100	100	100	99	98	98
3.34	100	100	100	100	100	100	99	99	99
3.50	100	100	100	100	100	100	100	100	100

Calculating Growth Percentile

Among all students who scored 2.21 on the 2010 5th Grade Exam, 75% of them scored lower than 2.61 on the 2011 6th Grade Exam.

Therefore, the ELA Unadjusted Growth Percentile for a 6th grader who scored 2.21 last year and 2.61 this year is 75.

Growth percentiles are adjusted based on students' demographic characteristics

These adjustments reflect average differences in growth compared to students with the same starting proficiency level. The adjustments are made to students' ending proficiency rating as follows:

CATEGORY		ADJUSTMENT
Special Education	Self-contained	+0.25
Special Education	CTT	+0.15
Special Education	SETSS	+0.10
Title I Free Lunch		+0.01 per 10% of students eligible

The Progress Report evaluates a school based on its median adjusted growth percentile, the adjusted growth percentile of the middle student when all the students' adjusted growth percentiles are listed from lowest to highest.