Attendance Data Addendum

BoE Meeting

Wednesday, 12/17/2014

Attendance Update

- A recent review of student attendance data for the 2012-13 and 2013-14 school year identified an error in the attendance rate formula that was used to calculate the quarterly attendance data for the school year.

- The quarterly attendance data, that was reported publicly and to the Board of Education, is inaccurate.

- The inaccuracy results from a flawed formula.

- Instead of calculating the number of days within each quarter, the formula calculated the total number of days in the given year.

- Despite the inaccuracy of the data, a positive trend of improved attendance was noted for all levels with a 95% or better attendance rate.

Calculation Formulas

Attendance Rate	Total number of absences during quarter (flawed formula)	Total number of absences during quarter (accurate formula)
95%	9.15	2.28 days
90%	18.3	4.57 days
85%	27.45	6.86 days
80%	36.6	9.15 days
Below 80%	More than 36.6 days	More than 9 days

Elementary Attendance Data 2012-2013 to 2013-2014

2012-13 School Year calculation with error						2012-13 School Year Correct Calculation				
Quarter	95% or better	90% or better	85% or better	80% or better	Below 80%	95% or better	90% or better	85% or better	80% or better	Below 80%
Qtr 1	38.00%	58.00%	68.00%	95.00%	5.00%	38.00%	58.00%	68.00%	95.00%	5.00%
Qtr 2	51.90%	72.40%	85.10%	94.00%	6.00%	51.90%	72.40%	85.10%	94%	6.00%
Qtr 3	41.90%	63.80%	78.90%	90.60%	9.40%	41.90%	63.80%	78.90%	90.60%	9.40%
Qtr 4	90.60%	99.00%	99.80%	99.90%	0.10%	41.80%	63.70%	78.80%	90.60%	9.40%

2013-14 School Year calculation with error						2013-14 School Year Correct Calculation				
Qtr 1	77.60%	90.70%	95.50%	98.10%	1.90%	77.60%	90.70%	95.50%	98.10%	1.90%
Qtr 2	93.00%	99.10%	99.70%	100%	0.00%	55.40%	73.70%	84.90%	93%	7.00%
Qtr 3	94.70%	99.50%	99.90%	100.00%	0.00%	52.40%	74.20%	86.20%	94.70%	5.30%
Qtr 4	92.20%	98.90%	99.80%	99.90%	0.10%	55.60%	74.10%	84.30%	92.20%	7.80%

What does this mean at the elementary level?

2012-13 to 2013-14

- Data was correct for Quarters 1, 2 and 3 in 2012-13 school year
- Calculation error for quarter 4 in 2012-13 school year
- Data was correct for quarter 1 in 2013-14
- Calculation error for quarters 2, 3, and 4 in 2013-14 school year

Actual % Change from 2012-13 to 2013-14 School Year					
Quarter	95% or better	90% or better	85% or better	80% or better	Below 80%
Qtr 1	39.60%	32.70%	27.50%	3.10%	-3.10%
Qtr 2	3.50%	1.30%	-0.20%	-1.00%	1.00%
Qtr 3	10.50%	10.40%	7.30%	4.10%	-4.10%
Qtr 4	13.80%	10.40%	5.50%	1.60%	-1.60%

Middle Level Attendance Data
2012-2013 to 2013-2014

	2012-13 School Year calculation with error					2012-13 School Year Correct Calculation				
	95% or better	90% or better	85% or better	80% or better	Below 80%	95% or better	90% or better	85% or better	80% or better	Below 80%
Qtr 1	33.20%	52.40%	64.00%	89.00%	10.80%	33.20%	52.40%	64.00%	89.00%	10.80%
Qtr 2	44.20%	60.90%	73.40%	85.40%	14.60%	44.20%	60.90%	73.40%	85.40%	14.60%
Qtr 3	41.40%	61.10%	74.00%	85.50%	14.50%	41.40%	61.10%	74.00%	85.50%	14.50%
Qtr 4	42.10%	66.10%	79.00%	86.50%	13.50%	42.10%	66.10%	79.00%	86.50%	13.50%
	2013-14 School Yearcalculation with error					2013-14 School Year Correct Calculation				
Qtr 1	62.10%	77.70%	85.20%	91.50%	8.50%	62.10%	77.70%	85.20%	91.50%	8.50%
Qtr 2	85.50%	96.10%	98.60%	99.10%	0.90%	47.70%	64.20%	74.20%	85.50%	14.50%
Qtr 3	90.70%	97.90%	99.00%	99.60%	0.40%	55.20%	72.70%	82.70%	90.70%	9.30%
Qtr 4	86.10%	96.50%	98.60%	99.20%	0.80%	53.30%	68.90%	77.90%	86.10%	13.90%

What does this mean at the middle school level?

2012-13 to 2013-14

- Data was correct for Quarters 1, 2, 3 and 4 in 2012-13 school year

- Data was correct for quarter 1 in 2013-14

- Calculation error for quarters 2, 3, and 4 in 2013-14 school year

Actual % Change from 2012-13 to 2013-14 School Year					
Quarter	95% or better	90% or better	85% or better	80% or better	Below 80%
Qtr 1	28.90%	25.30%	21.20%	2.50%	-2.30%
Qtr 2	3.50%	3.30%	0.80%	0.10%	-0.10%
Qtr 3	13.80%	11.60%	8.70%	5.20%	-5.20%
Qtr 4	11.20%	2.80%	-1.10%	-0.40%	0.40%

High School Attendance Data 2012-13 to 2013-2014

	2012-13 School Year calculation with error					2012-13 School Year Correct Calculation				
Quarter	95% or better	90% or better	85% or better	80% or better	Below 80%	95% or better	90% or better	85% or better	80% or better	Below 80%
Qtr 1	29.10%	46.50%	61.40%	83.60%	16.40%	29.10%	46.50%	61.40%	83.60%	16.40%
Qtr 2	43.60%	61.20%	71.60%	82.30%	17.70%	43.60%	61.20%	71.60%	82.30%	17.70%
Qtr 3	40.80%	56.60%	67.70%	79.70%	20.30%	40.80%	56.60%	67.70%	79.70%	20.30%
Qtr 4	41.00%	62.90%	75.60%	83.30%	16.70%	41.00%	62.90%	75.60%	83.30%	16.70%

	2013-14 School Year calculation with error					2013-14 School Year Correct Calculation				
Qtr 1	56.60%	70.90%	79.10%	86.30%	13.70%	56.60%	70.90%	79.10%	86.30%	13.70%
Qtr 2	80.30%	92.70%	97.30%	99%	1.10%	44.20%	59.90%	69.60%	80.30%	19.70%
Qtr 3	78.30%	92.40%	96.30%	98.50%	1.50%	41.00%	56.70%	67.60%	78.20%	21.70%
Qtr 4	79.30%	91.30%	95.50%	98.40%	1.60%	43.60%	60.20%	70.00%	79.30%	20.70%

What does this mean at the high school level?

2012-13 and 2013-14

- Data was correct for Quarters 1, 2, 3 and 4 in 2012-13 school year
- Data was correct for quarter 1 in 2013-14
- Calculation error for quarters 2, 3, and 4 in 2013-14 school year

Actual % Change from 2012-13 to 2013-14 School Year					
Quarter	95% or better	90% or better	85% or better	80% or better	Below 80%
Qtr 1	27.50%	24.40%	17.70%	2.70%	-2.70%
Qtr 2	0.60%	-1.30%	-2.00%	-2.00%	2.00%
Qtr 3	0.20%	0.10%	-0.10%	-1.50%	1.40%
Qtr 4	2.60%	-2.70%	-5.60%	-4.00%	4.00%

Ensuring data accuracy moving forward

- Data analysis will be calculated by the district

- Data will be compared to past quarters to look for anomalies or discrepancies in the data

- Data will be calculated two different ways to ensure consistency