Median Percent Correct

The median score is considered to be the middle score in a set of ordered scores.

For example, scores of 25, 25, 25, 75, 75, 75, and 100 - the median score would be 75.
Scores of: 25, 25, 100, 100, and 100 - the median score would be 100.

Class # 1: (5th Grade math)

Standards & Objectives	Number Possible	Median Percent Correct
Number Sense (2.0)	8	100
Fraction/Decimal/Percents (2.1)	4	100
Number Theory (2.2)	4	100

Class # 2: (5th Grade math)

Standards & Objectives	Number Possible	Median Percent Correct
Number Sense (2.0)	8	94
Fractions/Decimals/Percents (2.1)	4	100
Number Theory (2.2)	4	100

The question is why does class # 1 have 100% at the standard level and class # 2 has 94% at the standard level when it appears they both have 100% correct at both objective levels?

Because the score is a median percent correct, it is possible for scores to look this way.
Look at three student examples given below:

	Student A	Student B	Student C	
Obj. 2.1	100%	50%	100%	(placed in order: 50, 100, 100- median % of 100)
Obj. 2.2	50%	100%	100%	(ordered scores: 50, 100, 100 - median % of 100)

Combining these results by student makes the Standard level look this way:

Stand 2.0	75%	75%	100%	(ordered scores: 75, 75, 100 -median % of 75)

Even though the median percent correct at the objective level was 100, Students A and B did not receive perfect scores, which gives their percent at the standard level a 75% and lowering the median percent.

Substituting numbers would show:

- Student A answered 4/4 for Obj. 2.1, 2/4 for obj. 2.2, for a total of 6/8 or 75%.
- Student B answered 2/4 for Obj. 2.1, 4/4 for obj. 2.2, for a total of 6/8 or 75%.
- Student C answered 4/4 for Obj. 2.1, 4/4 for Obj. 2.2, for a total of 8/8 or 100%.

Their ordered scores at the Standard level are now: 75, 75, and 100 for a median of 75%.