Standards Analysis Whole-Class Instruction: What standards warrant more time for whole-class instruction, re-teaching and review?	Analysis of Why Students Did Not Learn the Standard	Instructional Plan—What Techniques Will You Use to Address These Standards
#4 Students Answering Correctly: 22% MA.6.GR.2.4: Given a mathematical or real-world context, find the surface area of right rectangular pyramids using the figures net.	 Found area of 1 triangle and 1 square, versus all triangles Didn't do all the steps Computer to paper 	 Use of manipulatives Exposure to online testing through Progress Learning and/or Big Ideas
#29 Students Answering Correctly: 26% MA.6.DP.1.2: Given a numerical data set within a real-world context, find and interpret mean, median, mode and range.	 Vocabulary Decimals Understanding what the question is asking Calculator error, excluding numbers 	 Provide real-world examples of purpose for finding range Give ways to remember (ex: mode=most, teacher is mean and averages grades)
#27 Students Answering Correctly: 27% MA.6.AR.2.1: Given an equation or inequality and a specified set of integer values, determine which values make the equation or inequality true or false.	 Don't know the rule when multiplying by negative, change the symbol Understanding that -3x means -3 times x Knowing how to undo -3x by dividing by -3 	 Show the why before the rule Graph it and substitute value to determine correct

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#24 Students Answering Correctly: 28% MA.6.DP.1.6: Given a real-world scenario, determine and describe how changes in data values impact measures of center and variation.	 Vocabulary Didn't put values in order Knowing how to use the tool to answer Multi-step 	 Provide real-world examples of purpose for finding range Give ways to remember (ex: mode=most, teacher is mean and averages grades)
#36 Students Answering Correctly: 32% MA.6.NSO.1.3: Given a mathematical or real-world context, interpret the absolute value of a number as the distance from zero on a number line. Find the absolute value of rational numbers.	 Understanding absolute value Right from left Don't draw out Think 2 negatives make a positive Not selecting all 	 Draw number lines Invisible 1 behind negative sign Knowing Order Knowing Rule
<pre>#13 Students Answering Correctly: 33% MA.6.GR.2.2: Solve mathematical and real-world problems involving the area of quadrilaterals and composite figures by decomposing them into triangles or rectangles.</pre>	 Not enough exposure to formula for triangle Formula for triangle not on reference sheet Adding all sides instead of multiplying 	 Exposure of Geometry Benchmarks prior in year due to falling later in pacing guide Decomposing figure

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<pre>#10 Students Answering Correctly: 34% MA.6.DP.1.2: Given a numerical data set within a real-world context, find and interpret mean, median, mode and range.</pre>	- Vocabulary - Decimal	- Estimate and Check Reasonableness before solving for exact solution
#26 Students Answering Correctly: 35% MA.6.AR.3.5: Solve mathematical and real-world problems involving ratios, rates and unit rates, including comparisons, mixtures, ratios of lengths and conversions within the measurement system.	 Don't know where to start with the information given Wrong operation 	 Use of ratio tables Reasonableness of a solution
#35 Students Answering Correctly: 35% MA.6.AR.2.3: Write and solve one- step equations in one variable within mathematical or real-world context using multiplication and division, where all terms and solutions are integers.	- Negative sign - Multiply versus divide - Use of calculator incorrect	- Checking reasonableness of the solution, should be positive answer

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<pre>#17 Students Answering Correctly: 35% MA.6.GR.2.1: Derive a formula for the area of a right triangle using a rectangle. Apply a formula to find the area of a triangle.</pre>	 Don't know the formula Formula not on the reference sheet Might add and then divide by 2 Find perimeter instead of area 	 Draw it as a rectangle and find half Use of manipulatives
<pre>#8 Students Answering Correctly: 35% MA.6.GR.1.1: Extend previous understanding of the coordinate plane to plot rational number ordered pairs in all four quadrants and on both axes. Identify the x- or y-axis as the line of reflection when two ordered pairs have an opposite x- or y- coordinate.</pre>	 Don't know the placement of decimals on the coordinate plane Mix up x and y Understanding the table and how to correctly fill in 	 X before y Labeling coordinate plane with different scales
<pre>#1 Students Answering Correctly: 36% MA. 6.AR.1.2: Translate a real- world written description into an algebraic inequality in the form of x>a, x<a, x="">=a or x<=a. Represent the inequality on a number line.</a,></pre>	 Definition of inequality At least versus less Reading symbol incorrectly 	 Use of number line Reference to money Substitution

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#20 Students Answering Correctly: 38% MA.6.GR.2.3: Solve mathematical and real-world problems involving the volume of right rectangular prisms with positive rational number edge lengths using a visual model and a formula.	 Fractions Understand what the question is asking to know which formula to use or use formula correctly Add all numbers Find perimeter instead of volume Find area of 2-dimensional versus volume (3.5 x 3.5) 	 Convert fraction (1/2) to decimal (0.5) Shapes (2-dimensional versus 3-dimensional) Spiral review volume
#28 Students Answering Correctly: 38% MA.6.GR.1.2: Find distances between ordered pairs, limited to the same x-coordinate or the same y-coordinate, represented on the coordinate plane.	 Solve mentally Graph incorrectly by labeling wrong, confusing x and y Counting incorrectly between numbers Distance negative versus positive 	 Graph points and check distance Relate to absolute value Use positive numbers and then expand to negative numbers
<pre>#9 Students Answering Correctly: 40% MA.6.AR.3.2: Given a real-world context, determine a rate for a ratio of quantities with different units. Calculate and interpret the corresponding unit rate.</pre>	 Fraction Incorrect use of ratio table Multiply fractions Flip 1/6 and multiply Meaning of unit rate 	 Correct use of ratio table Use of manipulatives to show fractions Conversions Use of manipulatives to show unit rate