

CMP Investigations	# of INV	# of Days	Standards Covered
			1 <sup>st</sup> Quarter
Prime Time Investigation 4.1 – 4.4  Proposed Mid-Term Date September 3rd	4	18	6.EE.A.1 Write and evaluate numerical expressions involving whole-number exponents. 6.EE.A.2b Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. 6.NS.B.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use
Comparing Bits and Pieces Investigation 1.1 – 1.5	5	11	the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.  6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.  6.RP.A.2 Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship.  6.RP.A.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.  6.RP.A.3a Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.  6.RP.A.3b Solve unit rate problems including those involving unit pricing and constant speed.  6.NS.C.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.
Comparing Bits and Pieces Investigation 2.1 – 2.3  Proposed Final Date: October 2nd	3	9	
			2 <sup>nd</sup> Quarter
Comparing Bits and Pieces Investigation 3.1 – 3.3	3	11	6.NS.C.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.  6.NS.C.6 Understand a rational number as a point on the number line. Extend number
Comparing Bits and Pieces Investigation 4.1 – 4.3  Proposed Mid-Term Date: November 6th	3	11	line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.  6.NS.C6a Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., —(-3) = 3, and that 0 is its own opposite.  6.NS.C.6c Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.  6.NS.C.7 Understand ordering and absolute value of rational numbers.
Let's Be Rational Investigation 2.1 – 2.3	3	11	6.NS.C.7a Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example: interpret -3 > -7 as a statement that -3 is located to the right of -7 on a number line oriented from left to right.  6.NS.C.7b Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example: write -3°C > -7°C to express the fact that -3°C is warmer than -7°C.  6.NS.C.7c Understand the absolute value of a rational number as its distance from 0 of the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example: for an account balance of -30 dollars, write  -30  = 30 to describe the size of the debt in dollars.
Let's Be Rational Investigation 3.1 – 3.4  Final Date: December 18th	4	12	6.NS.C.7d Distinguish comparisons of absolute value from statements about order. For example: recognize that an account balance less than –30 dollars represents a debt greater than 30 dollars.  6.RP.A.3c Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.  6.EE.A.3 Apply the properties of operations to generate equivalent expressions.



			6.NS.A.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
			3 <sup>rd</sup> Quarter
Covering and Surrounding Investigation 2.1 – 2.3	3	10	6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers. 6.EE.A.2a Write expressions that record operations with numbers and with letters standing for numbers. 6.EE.A.2c Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). 6.EE.B.6 Use variables to represent numbers and write expressions when solving a
Covering and Surrounding Investigation 3.1, 3.2,  Mid-Term Date February 5th	3	10	real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified se 6.EE.A.4 Identify when two expressions are equivalent (i.e., when the two expression name the same number regardless of which value is substituted into them).  6.EE.C.9 Use variables to represent two quantities in a real-world problem that chang in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.  6.G.A.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shape apply these techniques in the context of solving real-world and mathematical problem 6.NS.C.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate of the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.  6.G.A.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism Apply the formulas V = 1 w h and V = b h to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.  6.G.A.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.  6.N.C.6b
Covering and Surrounding Investigation 4.1 – 4.3	3	10	
Variables and Patterns Investigation 1.1	1	5	
Variables and Patterns Investigation 2.1, 2.3, 2.4  Final Date: March 11th	3	9	
			4 <sup>th</sup> Quarter
Variables and Patterns Investigation 3.1 – 3.4	4	11	6.EE.B.7 Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.  6.RP.A.3.d Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
Variables and Patterns Investigation 4.1 – 4.5  Mid-Term Date: April 22nd	5	12	<ul> <li>6.EE.B.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</li> <li>6.EE.B.8 Write an inequality of the form x &gt; c or x &lt; c to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form x &gt; c or x &lt; c have infinitely many solutions; represent solutions of such inequalities on number line diagrams.</li> <li>6.SP.A.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</li> <li>6.SP.A.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</li> </ul>
Data About Us Investigation 2.1 – 2.3	3	10	



Data About Us Investigation 3.1 – 3.3  Final Date: May 21st	3	10	6.SP.A.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number. 6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots. 6.SP.B.5 Summarize numerical data sets in relation to their context, such as by: 6.SP.B.5a Reporting the number of observations. 6.SP.B.5b Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. 6.SP.B.5c Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. 6.SP.B.5d Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.
Totals	55	170	
			Major Standard
			Major Standard Supporting Standard
*Summative Tests are in number of days to complete			
			Supporting Standard



#### Prime Time, Investigation 4.1 - 4.4

- Comparing Bits and Pieces, Investigation 1.1 1.5
- Comparing Bits and Pieces, Investigation 2.1 2.3
- Comparing Bits and Pieces, Investigation 3.1 3.3
- Comparing Bits and Pieces, Investigation 4.1 4.3
  - Let's Be Rational, Investigation 2.1 2.3
  - Let's Be Rational, Investigation 3.1 3.4
- Covering and Surrounding, Investigation 2.1 2.3
- Covering and Surrounding, Investigation 3.1 3.2, 3.4
  - Covering and Surrounding, Investigation 4.1 4.3
    - Variables and Patterns, Investigation 1.1
  - Variables and Patterns, Investigation 2.1, 2.3 2.4
    - Variables and Patterns, Investigation 3.1 3.4
    - Variables and Patterns, Investigation 4.1 4.5
      - Data About Us, Investigation 2.1 2.3
      - Data About Us, Investigation 3.1 3.3
      - Data About Us, Investigation 4.1 4.2

