Lesson	Standards for an Advanced 1 Course	Pacing
Unit 1 NUMBER SYSTEMS AND OPERATION	DNS	
Module 1: Rational Number Concepts		
Lesson 1.1 Identify and Interpret Rational Numbers	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., 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.	2 days
	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.	
	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.	
	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.	
	Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.	
Lesson 1.2 Compare Rational Numbers Using a Number Line	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.	2 days
	Write, interpret, and explain statements of order for rational numbers in real-world contexts.	
	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.	
Lesson 1.3 Find and Apply Absolute Value	Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.	1 day
	Distinguish comparisons of absolute value from statements about order.	
Lesson 1.4 Find and Apply LCM and GCF	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 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.	2 days
	Write, interpret, and explain statements of order for rational numbers in real-world contexts.	

	Major
	Supporting
0	Additional

In addition to the core instructional pacing below, HMH recommends the following:

- 3 days per year for the HMH Into Math Growth Measure powered by Math Inventory
- 2 days per module for the Module Opener, Are You Ready?, Module Review, and Module Test
- 1 day per unit for the Performance Task

Using these recommendations, the total pacing for Advanced 1 is 164 days.

Lesson	Standards for an Advanced 1 Course	Pacing
Lesson 1.5 Order Rational Numbers	Write, interpret, and explain statements of order for rational numbers in real-world contexts.	1 day
	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 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.	
Module 2: Fraction Division		
Lesson 2.1 Explore Division of Fractions with Like and Unlike Denominators	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.	2 days
Lesson 2.2 Explore Division of Mixed Numbers	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.	2 days
Lesson 2.3 Practice and Apply Division of Fractions and Mixed Numbers	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.	1 day
Lesson 2.4 Practice Fraction Operations	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.	2 days
	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 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.	
Module 3: Fluency with Multi-Digit Decin	nal Operations	
Lesson 3.1 Add and Subtract Multi-Digit Decimals	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	1 day
Lesson 3.2 Multiply Multi-Digit Decimals	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	1 day
Lesson 3.3 Divide Multi-Digit Whole Numbers	Fluently divide multi-digit numbers using the standard algorithm.	1 day
Lesson 3.4 Divide Multi-Digit Decimals	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	1 day
Lesson 3.5 Apply Operations with Multi- Digit Decimals	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	1 day

Lesson	Standards for an Advanced 1 Course	Pacing
Module 4: Understand Addition and Sub	traction of Rational Numbers	
Lesson 4.1 Add or Subtract a Positive Integer on a Number Line	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	2 days
	Understand $p+q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	
Lesson 4.2 Add or Subtract a Negative Integer on a Number Line	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	2 days
	Understand $p+q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	
Lesson 4.3 Use a Number Line to Add and Subtract Rational Numbers	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	2 days
	Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	
	Describe situations in which opposite quantities combine to make 0.	
Module 5: Fluency with Rational Number	Operations	
Lesson 5.1 Compute Sums of Rational Numbers	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	2 days
	Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	
	Understand subtraction of rational numbers as adding the additive inverse, $p-q=p+(-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.	
	Solve real-world and mathematical problems involving the four operations with rational numbers.	

Lesson	Standards for an Advanced 1 Course	Pacing
Lesson 5.2 Compute Differences of Rational Numbers	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	2 days
	Understand subtraction of rational numbers as adding the additive inverse, $p-q=p+(-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.	
	Solve real-world and mathematical problems involving the four operations with rational numbers.	
Lesson 5.3 Understand and Compute Products and Quotients of Rational Numbers	Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.	2 days
	Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.	
	Apply properties of operations as strategies to multiply and divide rational numbers.	
	Solve real-world and mathematical problems involving the four operations with rational numbers.	
Lesson 5.4 Write Rational Numbers as Decimals	Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.	2 days
	Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.	
Lesson 5.5 Multiply and Divide Rational Numbers in Context	■ Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as (−1)(−1) = 1 and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.	1 day
	Solve real-world and mathematical problems involving the four operations with rational numbers.	

Lesson	Standards for an Advanced 1 Course	Pacing
Module 5: Fluency with Rational Number	Operations	
Lesson 5.6 Apply Properties to Multi- Step Problems with Rational Numbers	 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. Apply properties of operations as strategies to add and subtract rational numbers. Apply properties of operations as strategies to multiply and divide rational numbers. 	2 days
	Solve real-world and mathematical problems involving the four operations with rational numbers.	
Lesson 5.7 Solve Multi-Step Problems with Rational Numbers in Context	Solve real-world and mathematical problems involving the four operations with rational numbers.	2 days
Unit 2 EXPRESSIONS, EQUATIONS, AND I	NEQUALITIES	
Module 6: Numerical and Algebraic Expre	ssions	
Lesson 6.1 Understand and Apply Exponents	Write and evaluate numerical expressions involving whole-number exponents.	1 day
Lesson 6.2 Write and Evaluate Numerical Expressions for Situations	 Write and evaluate numerical expressions involving whole-number exponents. Identify parts of an expression using mathematical terms 	2 days
	(sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.	
Lesson 6.3 Write Algebraic Expressions to Model Situations	Write expressions that record operations with numbers and with letters standing for numbers.	1 day
	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.	
	Use variables to represent numbers and write expressions when solving a 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 set.	
Lesson 6.4 Interpret and Evaluate Algebraic Expressions	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).	2 days
Lesson 6.5 Identify and Generate Equivalent Algebraic Expressions	 Apply the properties of operations to generate equivalent expressions. Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). 	2 days

Lesson	Standards for an Advanced 1 Course	Pacing
Lesson 6.6 Add, Subtract, Factor, and Expand Algebraic Expressions	 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. Understand that rewriting an expression in different forms in a problem 	2 days
	context can shed light on the problem and how the quantities in it are related.	
Module 7: Solve Problems Using Equation	s and Inequalities	
Lesson 7.1 Write Equations to Represent Situations	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.	1 day
	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 non-negative rational numbers.	
Lesson 7.2 Use Addition and Subtraction Equations to Solve Problems	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 non-negative rational numbers.	2 days
Lesson 7.3 Use Multiplication and Division Equations to Solve Problems	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 non-negative rational numbers.	2 days
Lesson 7.4 Use One-Step Equations to Solve a Variety of Problems	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 non-negative rational numbers.	1 day
Lesson 7.5 Write and Graph Inequalities	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.	2 days
	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	
Lesson 7.6 Solve One-Step Equations Involving Negative Numbers	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 non-negative rational numbers.	1 day
	Solve real-world and mathematical problems involving the four operations with rational numbers.	

Lesson	Standards for an Advanced 1 Course	Pacing
Module 8: Real-World Relationships Betw	een Variables	
Lesson 8.1 Represent Equations in Tables and Graphs	Use variables to represent two quantities in a real-world problem that change 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.	2 days
Lesson 8.2 Write Equations from Verbal Descriptions	Use variables to represent two quantities in a real-world problem that change 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.	1 day
Lesson 8.3 Write Equations from Tables and Graphs	Use variables to represent two quantities in a real-world problem that change 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.	2 days
Unit 3 RATIOS AND PROPORTIONAL REA	SONING	
Module 9: Ratios and Rates		
Lesson 9.1 Understand the Concept and Language of Ratios	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.	1 day
Lesson 9.2 Represent Ratios and Rates with Tables and Graphs	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.	2 days
	Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship.	
Lesson 9.3 Compare Ratios and Rates	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.	1 day
Lesson 9.4 Find and Apply Unit Rates	Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship.	2 days
	Solve unit rate problems including those involving unit pricing and constant speed.	
	Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.	
Lesson 9.5 Solve Ratio and Rate Problems Using Proportional Reasoning	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.	2 days
	Solve unit rate problems including those involving unit pricing and constant speed.	

Lesson	Standards for an Advanced 1 Course	Pacing
Module 10: Apply Ratios and Rates to Me	asurement	
Lesson 10.1 Use Ratio Reasoning With Circle Graphs	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.	1 day
Lesson 10.2 Use Rate Reasoning to Convert Within Measurement Systems	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	2 days
Lesson 10.3 Use Rate Reasoning to Convert Between Measurement Systems	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	2 days
Module 11: Identify and Represent Prop	ortional Relationships	
Lesson 11.1 Explore Relationships	Recognize and represent proportional relationships between quantities.	1 day
	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	
Lesson 11.2 Recognize Proportional Relationships in Tables	Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	2 days
	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	
	Represent proportional relationships by equations.	
Lesson 11.3 Recognize Proportional Relationships in Graphs	Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	2 days
	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	
	Explain what a point (<i>x</i> , <i>y</i>) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, <i>r</i>) where <i>r</i> is the unit rate.	
Lesson 11.4 Use Proportional Relationships to Solve	Use proportional relationships to solve multistep ratio and percent problems.	2 days
Rate Problems	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	

Lesson	Standards for an Advanced 1 Course	Pacing
Module 12: Understand and Apply Percen	t	
Lesson 12.1 Understand, Express, and Compare Percent Ratios	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.	2 days
Lesson 12.2 Use Strategies to Find a Percent of a Quantity	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.	2 days
Lesson 12.3 Solve a Variety of Percent Problems	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.	1 day
Module 13: Proportional Reasoning with	Percents	
Lesson 13.1 Percent Change	Use proportional relationships to solve multistep ratio and percent problems.	1 day
Lesson 13.2 Markups and Discounts	Use proportional relationships to solve multistep ratio and percent problems.	1 day
	Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.	
Lesson 13.3 Taxes and Gratuities	Use proportional relationships to solve multistep ratio and percent problems.	1 day
Lesson 13.4 Commissions and Fees	Use proportional relationships to solve multistep ratio and percent problems.	1 day
Lesson 13.5 Simple Interest	Use proportional relationships to solve multistep ratio and percent problems.	1 day
Unit 4 RELATIONSHIPS IN GEOMETRY		
Module 14: Polygons on the Coordinate P	lane	
Lesson 14.1 Graph and Find Distances Between Points on the Coordinate Plane	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.	2 days
	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	
	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.	
	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.	

Lesson	Standards for an Advanced 1 Course	Pacing
Lesson 14.2 Graph Polygons on the Coordinate Plane	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	2 days
	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.	
Lesson 14.3 Find Perimeter and Area on the Coordinate Plane	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	1 day
	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.	
Module 15: Area of Triangles and Special	Quadrilaterals	
Lesson 15.1 Develop and Use Formulas for Areas of Quadrilaterals	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	2 days
	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).	
	Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.	
Lesson 15.2 Develop and Use the Formula for Area of Triangles	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	1 day
	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).	
Lesson 15.3 Find Area of Composite Figures	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	2 days

Lesson	Standards for an Advanced 1 Course	Pacing
Module 16: Surface Area and Volume		
Lesson 16.1 Explore Nets and Surface Area	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.	2 days
Lesson 16.2 Find Volume of Rectangular Prisms	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 $V = lwh$ and $V = Bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	1 day
	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).	
Lesson 16.3 Solve Volume Problems	 □ 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 = Iwh and V = Bh to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. ■ Evaluate expressions at specific values of their variables. Include 	1 day
	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).	
Unit 5 DATA COLLECTION AND ANALYSIS		
Module 17: Data Collection and Displays		
Lesson 17.1 Explore Statistical Data Collection	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.	1 day
	Summarize numerical data sets in relation to their context, such as by: Reporting the number of observations.	
	O Summarize numerical data sets in relation to their context, such as by: Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.	
Lesson 17.2 Display Data in Dot Plots	O Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	2 days
Lesson 17.3 Make Histograms and Frequency Tables	O Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	2 days

Lesson	Standards for an Advanced 1 Course	Pacing
Lesson 17.4 Find Measures of Center	 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. 	1 day
	 Summarize numerical data sets in relation to their context, such as by: Reporting the number of observations. 	
Lesson 17.5 Choose a Measure of Center	Summarize numerical data sets in relation to their context, such as by: 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.	1 day
Module 18: Variability and Data Distribution		
Lesson 18.1 Explore Patterns of Data	Summarize numerical data sets in relation to their context, such as by: 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.	1 day
Lesson 18.2 Display Data in Box Plots	Oisplay numerical data in plots on a number line, including dot plots, histograms, and box plots.	2 days
Lesson 18.3 Find Mean Absolute Deviation	Summarize numerical data sets in relation to their context, such as by: 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.	1 day
Lesson 18.4 Explore Measures of Variability	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.	1 day
	Summarize numerical data sets in relation to their context, such as by: 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.	
	Summarize numerical data sets in relation to their context, such as by: 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.	
Lesson 18.5 Describe Distributions	 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. 	1 day
	Summarize numerical data sets in relation to their context, such as by: 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.	
	Summarize numerical data sets in relation to their context, such as by: 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.	