

G R E A T M I N D S

Grade 7 | Tennessee Academic Standards for Mathematics Correlation to Eureka Math®

About Eureka Math

Created by Great Minds®, a mission-driven Public Benefit Corporation, Eureka Math® helps teachers deliver unparalleled math instruction that provides students with a deep understanding and fluency in math. Crafted by teachers and math scholars, the curriculum carefully sequences the mathematical progressions to maximize coherence from Prekindergarten through Precalculus—a principle tested and proven to be essential in students' mastery of math.

Teachers and students using *Eureka Math* find the trademark "Aha!" moments in *Eureka Math* to be a source of joy and inspiration, lesson after lesson, year after year.

Aligned

Great Minds offers detailed analyses that demonstrate how each grade of *Eureka Math* aligns with specific state standards. Access these free alignment studies at <u>greatminds.org/state-studies</u>.

Data

Schools and districts nationwide are experiencing student growth and impressive test scores after using *Eureka Math*. See their stories and data at <u>greatminds.org/data</u>.

Full Suite of Resources

Great Minds offers the *Eureka Math* curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at <u>greatminds.org/math/curriculum</u>.

The teacher-writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following:

- · Printed material in English and Spanish
- Digital resources
- Professional development
- Classroom tools and manipulatives
- Teacher support materials
- Parent resources

Standards for Mathematical Practice

MP.1

Make sense of problems and persevere in solving them.

MP.2

Reason abstractly and quantitatively.

MP.3

Construct viable arguments and critique the reasoning of others.

MP.4

Model with mathematics.

MP.5

Use appropriate tools strategically.

MP.6

Attend to precision.

MP.7

Look for and make use of structure.

MP.8

Look for and express regularity in repeated reasoning.

Aligned Components of Eureka Math

Lessons in every module engage students in mathematical practices. These are designated in the Module Overview and labeled in lessons.

For example:

A STORY OF RATIOS

Lesson 13 7•3

Questions leading to finding a solution:

- What is a solution set of an inequality?
 - a A solution set contains more than one number that makes the inequality a true statement.
- Is -3 a solution to our inequality in part (a)?
 - \circ Yes. When the value of -3 is substituted into the inequality, the resulting statement is true.
- Could -4 be a solution to our inequality in part (a)?
 - \circ Substituting -4 does not result in a true statement because -12 is equal to, but not greater than -12.
- We have found that x = -3 is a solution to the inequality in part (a) where x = -4 and x = -5 are not. What is meant by the minimum value in this inequality? Explain.
 - The minimum value is the smallest value that makes the inequality true. -3 is not the minimum value because there are rational numbers that are smaller than -3 but greater than -4. For example, $-3\frac{1}{2}$ is smaller than -3 but still creates a true statement.
- How is solving an inequality similar to solving an equation? How is it different?
 - Solving an equation and an inequality are similar in the sequencing of steps taken to solve for the variable. The same if-then moves are used to solve for the variable.
 - They are different because in an equation, you get one solution, but in an inequality, there are an infinite number of solutions.

Ratios and Proportional Relationships

7.RP.A Analyze proportional relationships and use them to solve real-world and mathematical problems.

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Aligned Components of Eureka Math

7.RP.A.1	G7 M1 Lesson 11: Ratios of Fractions and Their Unit Rates
Compute unit rates associated with	G7 M1 Lesson 12: Ratios of Fractions and Their Unit Rates
ratios of fractions, including ratios	G7 M1 Lesson 13: Finding Equivalent Ratios Given the Total Quantity
of lengths, areas, and other quantities measured in like or different units.	G7 M1 Lesson 15: Equations of Graphs of Proportional Relationships Involving Fractions
7.RP.A.2	This standard is fully addressed by the lessons aligned to its subsections.
Recognize and represent proportional relationships between quantities.	
7.RP.A.2a	G7 M1 Lesson 2: Proportional Relationships
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	G7 M1 Lesson 3: Identifying Proportional and Non-Proportional Relationships in Tables
	G7 M1 Lesson 4: Identifying Proportional and Non-Proportional Relationships in Tables
	G7 M1 Lesson 5: Identifying Proportional and Non-Proportional Relationships in Graphs
and observing whether the graph is a	G7 M1 Lesson 6: Identifying Proportional and Non-Proportional Relationships in Graphs
straight line through the origin).	G7 M1 Lesson 15: Equations of Graphs of Proportional Relationships Involving Fractions
	G7 M4 Lesson 11: Tax, Commissions, Fees, and Other Real-World Percent Applications
7.RP.A.2b	G7 M1 Topic B: Unit Rate and Constant of Proportionality
Identify the constant of proportionality	G7 M1 Lesson 15: Equations of Graphs of Proportional Relationships Involving Fractions
(unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	G7 M1 Lesson 16: Relating Scale Drawings to Ratios and Rates
	G7 M1 Lesson 17: The Unit Rate as the Scale Factor
	G7 M4 Lesson 11: Tax, Commissions, Fees, and Other Real-World Percent Applications
	G7 M4 Lesson 12: The Scale Factor as a Percent for a Scale Drawing

Aligned Components of Eureka Math

7.101 .A.20
Use the concept of equality to represent
proportional relationships with
equations.

G7 M1 Lesson 2: Proportional Relationships

G7 M1 Lesson 8: Representing Proportional Relationships with Equations

G7 M1 Lesson 9: Representing Proportional Relationships with Equations

G7 M1 Lesson 10: Interpreting Graphs of Proportional Relationships

G7 M1 Lesson 15: Equations of Graphs of Proportional Relationships Involving Fractions

G7 M4 Lesson 2: Part of a Whole as Percent

G7 M4 Lesson 3: Comparing Quantities with Percent

G7 M4 Lesson 4: Percent Increase and Decrease

G7 M4 Lesson 6: Fluency with Percents

G7 M4 Lesson 7: Markup and Markdown Problems

G7 M4 Lesson 9: Problem Solving When the Percent Changes

G7 M4 Lesson 10: Simple Interest

G7 M4 Lesson 11: Tax, Commissions, Fees, and Other Real-World Percent Applications

7.RP.A.2d

7 DD A 2c

Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate.

G7 M1 Lesson 10: Interpreting Graphs of Proportional Relationships

G7 M1 Lesson 15: Equations of Graphs of Proportional Relationships Involving Fractions

G7 M4 Lesson 11: Tax, Commissions, Fees, and Other Real-World Percent Applications

Aligned Components of Eureka Math

7.	RF	۹.۵	۱.3

Use proportional relationships to solve multi-step ratio and percent problems.

G7 M1 Lesson 14: Multi-Step Ratio Problems

G7 M4 Lesson 1: Percent

G7 M4 Lesson 3: Comparing Quantities with Percent

G7 M4 Lesson 4: Percent Increase and Decrease

G7 M4 Lesson 5: Find One Hundred Percent Given Another Percent

G7 M4 Lesson 6: Fluency with Percents

G7 M4 Topic B: Percent Problems Including More than One Whole

G7 M4 Topic D: Population, Mixture, and Counting Problems Involving Percents

The Number System

7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

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Aligned Components of Eureka Math

7.NS.A.1

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.

This standard is fully addressed by the lessons aligned to its subsections.

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Aligned Components of Eureka Math

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7.NS.A.1a	G7 M2 Lesson 1: Opposite Quantities Combine to Make Zero
Understand $p + q$ as the number	G7 M2 Lesson 2: Using the Number Line to Model the Addition of Integers
located a distance $ q $ from p , in the positive or negative direction depending	G7 M2 Lesson 3: Understanding Addition of Integers
on whether q is positive or negative.	G7 M2 Lesson 4: Efficiently Adding Integers and Other Rational Numbers
Show that a number and its opposite have a sum of 0 (are additive inverses).	G7 M2 Lesson 7: Addition and Subtraction of Rational Numbers
Interpret sums of rational numbers	G7 M2 Lesson 8: Applying the Properties of Operations to Add and Subtract Rational Numbers
by describing real-world contexts.	G7 M2 Lesson 9: Applying the Properties of Operations to Add and Subtract Rational Numbers
7.NS.A.1b	G7 M2 Lesson 5: Understanding Subtraction of Integers and Other Rational Numbers
Understand subtraction of rational	G7 M2 Lesson 6: The Distance Between Two Rational Numbers
numbers as adding the additive inverse, $p-q=p+(-q)$. Show that the distance	G7 M2 Lesson 7: Addition and Subtraction of Rational Numbers
between two rational numbers on the	G7 M2 Lesson 8: Applying the Properties of Operations to Add and Subtract Rational Numbers
number line is the absolute value of their	G7 M2 Lesson 9: Applying the Properties of Operations to Add and Subtract Rational Numbers
difference, and apply this principle in real-world contexts.	
7.NS.A.1c	G7 M2 Lesson 8: Applying the Properties of Operations to Add and Subtract Rational Numbers
Apply properties of operations as strategies to add and subtract rational numbers.	G7 M2 Lesson 9: Applying the Properties of Operations to Add and Subtract Rational Numbers
7.NS.A.2	This standard is fully addressed by the lessons aligned to its subsections.
Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.	

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7.NS.A.2a

Understand that multiplication is extended from fractions to all 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.

G7 M2 Lesson 10: Understanding Multiplication of Integers

G7 M2 Lesson 11: Develop Rules for Multiplying Signed Numbers

G7 M2 Lesson 15: Multiplication and Division of Rational Numbers

7.NS.A.2b

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 $-\left(\frac{p}{q}\right) = \frac{-p}{q} = \frac{p}{-q}$. Interpret quotients of rational numbers by describing real-world contexts.

G7 M2 Lesson 12: Division of Integers

G7 M2 Lesson 15: Multiplication and Division of Rational Numbers

7.NS.A.2c

Apply properties of operations as strategies to multiply and divide rational numbers.

G7 M2 Lesson 16: Applying the Properties of Operations to Multiply and Divide Rational Numbers

Aligned Components of Eureka Math

7.NS.A.2d	G7 M2 Lesson 14: Converting Rational Numbers to Decimals Using Long Division	
Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates or eventually repeats.		
7.NS.A.3 Solve real-world and mathematical problems involving the four operations with rational numbers.	G7 M2 Lesson 18: Writing, Evaluating, and Finding Equivalent Expressions with Rational Numbers G7 M2 Lesson 19: Writing, Evaluating, and Finding Equivalent Expressions with Rational Numbers G7 M2 Lesson 20: Investments—Performing Operations with Rational Numbers G7 M2 Lesson 21: If-Then Moves with Integer Number Cards	

Expressions and Equations

7.EE.A Use properties of operations to generate equivalent expressions.

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Aligned Components of Eureka Math

7.EE.A.1	G7 M3 Topic A: Use Properties of Operations to Generate Equivalent Expressions
Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	
7.EE.A.2	G7 M3 Lesson 1: Generating Equivalent Expressions
Rewrite and connect equivalent	G7 M3 Lesson 3: Writing Products as Sums and Sums as Products
expressions in different forms in a contextual problem to provide multiple	G7 M3 Lesson 4: Writing Products as Sums and Sums as Products
ways of interpreting the problem and	G7 M3 Lesson 6: Collecting Rational Number Like Terms
investigating how the quantities in it are related.	

Expressions and Equations

7.EE.B Solve real-world and mathematical problems using numerical and algebraic expressions and equations and inequalities.

Tennessee Academic Standards for Mathematics

Aligned Components of Eureka Math

7.EE.B.3	This standard is fully addressed by the lessons aligned to its subsections.
Solve multi-step real-world and mathematical problems posed with positive and negative rational numbers presented in any form (whole numbers, fractions, and decimals).	
7.EE.B.3a	G7 M3 Lesson 7: Understanding Equations
Apply properties of operations	G7 M3 Lesson 8: Using If-Then Moves in Solving Equations
to calculate with numbers in any form; convert between forms as appropriate.	G7 M3 Lesson 9: Using If-Then Moves in Solving Equations
convert between forms as appropriate.	G7 M3 Lesson 10: Angle Problems and Solving Equations
	G7 M3 Lesson 11: Angle Problems and Solving Equations
	G7 M3 Lesson 13: Inequalities
	G7 M3 Lesson 14: Solving Inequalities
	G7 M3 Lesson 15: Graphing Solutions to Inequalities
	G7 M3 Lesson 25: Volume and Surface Area
	G7 M3 Lesson 26: Volume and Surface Area
	G7 M4 Lesson 7: Markup and Markdown Problems
	G7 M4 Lesson 8: Percent Error Problems
	G7 M4 Lesson 9: Problem Solving When the Percent Changes
	G7 M4 Topic D: Population, Mixture, and Counting Problems Involving Percents

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7.EE.B.3b	G7 M3 Lesson 8: Using If-Then Moves in Solving Equations
Assess the reasonableness of answers	G7 M3 Lesson 25: Volume and Surface Area
using mental computation and estimation strategies.	G7 M3 Lesson 26: Volume and Surface Area
estimation strategies.	G7 M4 Lesson 16: Population Problems
	G7 M4 Lesson 17: Mixture Problems
7.EE.B.4	This standard is fully addressed by the lessons aligned to its subsections.
Use variables to represent quantities in a real-world and mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.	
7.EE.B.4a	G7 M2 Lesson 17: Comparing Tape Diagram Solutions to Algebraic Solutions
Solve real-world and mathematical	G7 M2 Lesson 22: Solving Equations Using Algebra
problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ where	G7 M2 Lesson 23: Solving Equations Using Algebra
p, q, and r are specific rational numbers.	G7 M3 Lesson 7: Understanding Equations
Solve equations of these forms fluently.	G7 M3 Lesson 8: Using If-Then Moves in Solving Equations
Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used	G7 M3 Lesson 9: Using If-Then Moves in Solving Equations
	G7 M3 Lesson 10: Angle Problems and Solving Equations
in each approach.	G7 M3 Lesson 11: Angle Problems and Solving Equations
	G7 M4 Lesson 10: Simple Interest
	G7 M4 Lesson 11: Tax, Commissions, Fees, and Other Real-World Percent Applications
	G7 M4 Lesson 17: Mixture Problems
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7.EE.B.4b

Solve real-world and mathematical problems leading to inequalities of the form $px+q>r, px+q< r, px+q\geq r,$ and $px+q\leq r,$ where p,q, and r are specific rational numbers. Graph the solution set of the inequality on a number line and interpret it in the context of the problem.

G7 M3 Lesson 12: Properties of Inequalities

G7 M3 Lesson 13: Inequalities

G7 M3 Lesson 14: Solving Inequalities

G7 M3 Lesson 15: Graphing Solutions to Inequalities

Geometry

7.G.A Draw, construct, and describe geometrical figures and describe the relationships between them.

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Aligned Components of Eureka Math

7.G.A.1

Solve problems involving scale drawings of congruent and similar geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.

G7 M1 Lesson 17: The Unit Rate as the Scale Factor

G7 M1 Lesson 18: Computing Actual Lengths from a Scale Drawing

G7 M1 Lesson 19: Computing Actual Areas from a Scale Drawing

G7 M1 Lesson 20: An Exercise in Creating a Scale Drawing

G7 M1 Lesson 21: An Exercise in Changing Scales

G7 M1 Lesson 22: An Exercise in Changing Scales

G7 M4 Topic C: Scale Drawings

7.G.A.2

Draw triangles with given conditions: three angle measures or three side measures. Notice when the conditions determine a unique triangle, more than one triangle, or no triangle. G7 M6 Topic B: Constructing Triangles

Geometry

7.G.B Solve real-world and mathematical problems involving angle measure, area, surface area, and volume.

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Aligned Components of Eureka Math

7.G.B.3	G7 M3 Lesson 16: The Most Famous Ratio of All
Know the formulas for the area and	G7 M3 Lesson 17: The Area of a Circle
circumference of a circle and use them to solve problems. Explore the	G7 M3 Lesson 18: More Problems on Area and Circumference
relationships between the radius, the	G7 M3 Lesson 20: Composite Area Problems
circumference, and the area of a circle,	
and the number π .	
7.G.B.4	G7 M3 Lesson 10: Angle Problems and Solving Equations
Know and use facts about	G7 M3 Lesson 11: Angle Problems and Solving Equations
supplementary, complementary,	G7 M6 Topic A: Unknown Angles
vertical, and adjacent angles in a multi-step problem to write and solve	
simple equations for an unknown angle	
in a figure.	
7.G.B.5	G7 M3 Lesson 19: Unknown Area Problems on the Coordinate Plane
Solve real-world and mathematical	G7 M3 Lesson 20: Composite Area Problems
problems involving area	G7 M3 Lesson 21: Surface Area
of two-dimensional figures composed of triangles, quadrilaterals, and	G7 M3 Lesson 22: Surface Area
polygons, and volume and surface area of three-dimensional objects composed of cubes and right prisms.	G7 M3 Lesson 23: The Volume of a Right Prism
	G7 M3 Lesson 24: The Volume of a Right Prism
	G7 M3 Lesson 25: Volume and Surface Area
	G7 M3 Lesson 26: Volume and Surface Area
	G7 M6 Topic D: Problems Involving Area and Surface Area
	G7 M6 Topic E: Problems Involving Volume

Statistics and Probability

7.SP.A Use random sampling to draw inferences about a population.

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Aligned Components of Eureka Math

7.SP.A.1

Explore how statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.

G7 M5 Lesson 14: Selecting a Sample

G7 M5 Lesson 15: Random Sampling

G7 M5 Lesson 18: Sampling Variability and the Effect of Sample Size

G7 M5 Lesson 19: Understanding Variability When Estimating a Population Proportion

G7 M5 Lesson 13: Populations, Samples, and Generalizing from a Sample to a Population

7.SP.A.2

Collect and use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.

G7 M5 Lesson 14: Selecting a Sample

G7 M5 Lesson 15: Random Sampling

G7 M5 Lesson 16: Methods for Selecting a Random Sample

G7 M5 Lesson 17: Sampling Variability

G7 M5 Lesson 18: Sampling Variability and the Effect of Sample Size

G7 M5 Lesson 19: Understanding Variability When Estimating a Population Proportion

G7 M5 Lesson 20: Estimating a Population Proportion

Statistics and Probability

7.SP.B Draw informal comparative inferences about two populations.

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Aligned Components of Eureka Math

7.SP.B.3 Informally compare the measures of center (mean, median, mode) of two numerical data distributions with similar variabilities.	G6 M6 Lesson 19: Comparing Data Distributions G7 M5 Lesson 21: Why Worry About Sampling Variability? Supplemental material is necessary to address comparing the measures of center of two numerical data distributions by using the mode.
7.SP.B.4 Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations.	G7 M5 Topic D: Comparing Populations

Statistics and Probability

7.SP.C Investigate chance processes and develop, use, and evaluate probability models.

Tennessee Academic Standards for Mathematics

Aligned Components of Eureka Math

7.SP.C.5	G7 M5 Lesson 1: Chance Experiments
Recognize that the probability of a chance event is a number between 0 and 1 and interpret the likelihood of the event occurring.	

Aligned Components of Eureka Math

7.SP.C.6	This standard is fully addressed by the lessons aligned to its subsections.
Calculate theoretical and experimental probability of simple events.	
7.SP.C.6a	G7 M5 Lesson 2: Estimating Probabilities by Collecting Data
Approximate the probability of a	G7 M5 Lesson 3: Chance Experiments with Equally Likely Outcomes
chance event by collecting data on the chance process that produces it and	G7 M5 Lesson 4: Calculating Probabilities for Chance Experiments with Equally Likely Outcomes
observing its long-run relative frequency,	G7 M5 Lesson 5: Chance Experiments with Outcomes That Are Not Equally Likely
and predict the approximate relative	G7 M5 Lesson 8: The Difference Between Theoretical Probabilities and Estimated Probabilities
frequency given the probability.	G7 M5 Lesson 12: Applying Probability to Make Informed Decisions
7.SP.C.6b	G7 M5 Lesson 4: Calculating Probabilities for Chance Experiments with Equally Likely Outcomes
Calculate the theoretical probability of a simple event.	
7.SP.C.6c	G7 M5 Lesson 4: Calculating Probabilities for Chance Experiments with Equally Likely Outcomes
Compare theoretical probabilities	G7 M5 Lesson 5: Chance Experiments with Outcomes That Are Not Equally Likely
to experimental probabilities; explain	G7 M5 Lesson 8: The Difference Between Theoretical Probabilities and Estimated Probabilities
any possible sources of discrepancy.	G7 M5 Lesson 9: Comparing Estimated Probabilities to Probabilities Predicted by a Model
	G7 M5 Lesson 12: Applying Probability to Make Informed Decisions
7.SP.C.7	This standard is fully addressed by the lessons aligned to its subsections.
Develop a probability model and use it to find experimental or theoretical probabilities of events.	

Aligned Components of Eureka Math

7.SP.C.7a	G7 M5 Lesson 4: Calculating Probabilities for Chance Experiments with Equally Likely Outcomes
Use a uniform probability model, with equal probability assigned to all outcomes, to determine probabilities of events.	
7.SP.C.7b	G7 M5 Lesson 2: Estimating Probabilities by Collecting Data
Develop a probability model, including non-uniform models, by observing frequencies in data generated from a chance process. Use the model to estimate the probabilities of events.	G7 M5 Lesson 3: Chance Experiments with Equally Likely Outcomes
	G7 M5 Lesson 4: Calculating Probabilities for Chance Experiments with Equally Likely Outcomes
	G7 M5 Lesson 5: Chance Experiments with Outcomes That Are Not Equally Likely
	G7 M5 Lesson 8: The Difference Between Theoretical Probabilities and Estimated Probabilities
	G7 M5 Lesson 12: Applying Probability to Make Informed Decisions

Statistics and Probability

7.SP.D Summarize and describe numerical data sets.

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Aligned Components of Eureka Math

7.SP.D.8	This standard is fully addressed by the lessons aligned to its subsections.
Summarize a numerical data set in relation to its context.	

Aligned Components of Eureka Math

7.SP.D.8a

Give quantitative measures of center (median and/or mean) and variability (range and/or interquartile range), as well as describe any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.

G6 M6 Lesson 6: Describing the Center of a Distribution Using the Mean

G6 M6 Lesson 7: The Mean as a Balance Point

G6 M6 Lesson 8: Variability in a Data Distribution

G6 M6 Topic C: Summarizing a Distribution that is Skewed Using the Median and the

Interquartile Range

G6 M6 Topic D: Summarizing and Describing Distributions

7.SP.D.8b

Relate and understand the choice of measures of center (median and/or mean) and variability (range and/or interquartile range) to the shape of the data distribution and the context in which the data were gathered.

G6 M6 Lesson 21: Summarizing a Data Distribution by Describing Center, Variability, and Shape

G6 M6 Lesson 22: Presenting a Summary of a Statistical Project