## Imagine

Math

2016-2017
Eureka Math/EngageNY Learning Pathways

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## A Story of Units

 Grade 3
# INTRODUCTION: Grade 3 

Eureka Math/EngageNY Topic
Imagine Math Lesson
CCSS Addressed

Visualizing Whole Numbers
Visualizing Place Value Introduction
Visualizing Addition
Visualizing Subtraction

## MODULE 1: Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10

## Eureka Math/EngageNY Topic

Imagine Math Lesson
cess Addressed

A: Multiplication and the Meaning of the Factors

B: Division as an Unknown Factor Problem
C: Multiplication Using Units of 2 and 3
D: Division Using Units of 2 and 3
E: Multiplication and Division Using Units of 4
F: Distributive Property and Problem Solving Using Units of 2-5 and 10

| Developing Fluency Using 2 as a Factor | $\checkmark 3.0 A .1$ |
| :--- | :--- |
| Developing Fluency Using 5 or 10 as a Factor | $\checkmark 3.0 A .2$ |
| Using Halves and Doubles to Solve Multiplication Problems | $\checkmark 3.0 A .3^{*}$ |
| Concept of Multiplication - Grouping | $\checkmark 3.0 A .4$ |
| Concept of Multiplication - Word Problems | $\checkmark$ 3.0A. 5 |
| Concept of Multiplication - Arrays | $\checkmark 3.0 A .6$ |
| Concept of Division | $\checkmark 3.0 A .7$ |
| Interpreting Division Problems <br> Constructing Division Problems <br> Relationship Between Multiplication and Division <br> Multiplication and Division Fact Families <br> Solving Multiplication and Division Equations <br> Division as an Unknown-Factor Problem |  |

## A Story of Units: Grade 3

## MODULE 2: Place Value and Problem Solving with Units of Measure

## Eureka Math/EngageNY Topic

Imagine Math Lesson
ccss Addressed

A: Time Measurement and Problem Solving

## Adding and Subtracting Time

Reasoning About Place Value and Rounding
$\checkmark$ 3.NBT. 1
B: Measuring Weight and Liquid Volume in Metric Units

Rounding the to the Nearest Ten and Hundred
3.NBT. 2
$\checkmark$ 3.MD. 1
3.MD. 2

D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm

E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm

MODULE 3: Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10

A: The Properties of Multiplication and Division

B: Multiplication and Division Using Units of 6 and 7

C: Multiplication and Division Using Units up to 8

D: Multiplication and Division Using Units of 9
E: Analysis of Patterns and Problem Solving Including Units of 0 and 1

F: Multiplication of Single-Digit Factors and Multiples of 10

## Properties of Addition and Multiplication

Multiplication and Division Word Problems - Visual Models
Multiplication and Division Word Problems - Equations
Multiplication and Division Word Problems - Solutions
Multiplying by Multiples of Ten
Additive and Multiplicative Patterns
$\checkmark$ 3.NBT. 3
$\checkmark 3.0$ A. 3
$\checkmark$ 3.0A. $4^{*}$
$\checkmark$ 3.0A. 5
$\checkmark$ 3.0A. $7^{*}$
$\checkmark$ 3.0A. ${ }^{*}$
$\checkmark$ 3.0A. 9

## A Story of Units: Grade 3

MODULE 4: Multiplication and Area

| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| :---: | :---: | :---: |
| A: Foundations for Understanding Area <br> B: Concepts of Area Measurement <br> C: Arithmetic Properties Using Area Models <br> D: Applications of Area Using Side Lengths of Figures | Unit Squares <br> Concept of Area <br> Area of Rectangles <br> Recognizing Area as Additive <br> Area of Basic Composite Figures <br> Using Visual Models to Understand the Distributive Property | $\begin{aligned} & \checkmark ~ 3 . M D .5 \\ & \checkmark ~ 3 . M D .6 \\ & \checkmark ~ 3 . M D .7 \end{aligned}$ |
| MODULE 5: Fractions as Numbers on the Number Line |  |  |
| Fureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| A: Partitioning a Whole into Equal Parts <br> B: Unit Fractions and Their Relation to the Whole <br> C: Comparing Unit Fractions and Specifying the Whole <br> D: Fractions on the Number Line <br> E: Equivalent Fractions <br> F: Comparison, Order, and Size of Fractions | Understanding Fractions - Equal Areas <br> Understanding Fractions - Notation <br> Unit Fractions on the Number Line <br> Fractions on the Number Line <br> Modeling Equivalent Fractions with Number Lines <br> Visual Models of Equivalent Fractions <br> Whole Numbers as Fractions <br> Whole Numbers as Fractions on the Number Line <br> Comparing Fractions with the Same Numerator or Denominator <br> Recognizing Valid Fraction Comparisons I | $\begin{aligned} & \checkmark ~ 3 . N F .1 \\ & \checkmark ~ 3 . N F .2 \\ & \checkmark ~ 3 . N F .3 \\ & \checkmark ~ 3 . G .2 \end{aligned}$ |
| MODULE 6: Collecting and Displaying Data |  |  |
| Fureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| A: Generate and Analyze Categorical Data <br> B: Generate and Analyze Measurement Data | Introduction to Data Displays Line Plots and Length | $\begin{aligned} & \text { V 3.MD. } 3 \\ & \text { V 3.MD. } 4 \end{aligned}$ |

## A Story of Units: Grade 3

## MODULE 7: Geometry and Measurement Word Problems

A: Solving Word Problems
B: Attributes of Two-Dimensional Figures
C: Problem Solving with Perimeter
D: Recording Perimeter and Area Data on Line Plots

E: Problem Solving with Perimeter and Area

Solving Two-Step Word Problems
$\checkmark$ 3.MD. 4
Modeling and Solving Two-Step Word Problems
$\checkmark$ 3.MD. 8
Classifying Quadrilaterals I
3.G. 1

## Perimeter

Line Plots and Length

## A Story of Units <br> Grade 4

## INTRODUCTION: Grade 4

| Eureka Math/EngageNY Topic | Imagine Math Lesson | cCSS Addressed |
| :---: | :---: | :---: |
|  | Visualizing Place Value Relationships Visualizing Rounding Visualizing Addition and Subtraction Visualizing Multiplication and Division | Introduction |
| MODULE 1: Place Value, Rounding, and Algorithms for Addition and Subtraction |  |  |
| Eureka Math/EngagenY Topic | Imagine Math Lesson | ccss Addressed |
| A: Place Value of Multi-Digit Whole Numbers <br> B: Comparing Multi-Digit Whole Numbers | Place Value Concepts <br> Using Place Value Concepts to Compare Whole Numbers Understanding Place Value Relationships | $\begin{aligned} & \checkmark \text { V 4.OA. } 1 \\ & \checkmark \text { 4.NBT. } 1 \\ & \checkmark \text { 4.NBT. } 2 \end{aligned}$ |
| C: Rounding Multi-Digit Whole Numbers | Rounding Whole Numbers <br> Using Rounding in Problem Solving | $\checkmark$ 4.NBT. 3 |
| D: Multi-Digit Whole Number Addition <br> E: Multi-Digit Whole Number Subtraction <br> F: Addition and Subtraction Word Problems | Adding Whole Numbers <br> Adding and Subtracting with the Standard Algorithm | $\checkmark$ 4.0A.3* <br> $\checkmark$ 4.NBT.1 ${ }^{*}$ <br> $\checkmark$ 4.NBT.2* <br> $\checkmark$ 4.NBT. 4 |

MODULE 2: Unit Conversions and Problem Solving with Metric Measurement

| Eureka Math/EngagenY Topic | Imagine Math Lesson | Ccss Addressed |
| :---: | :---: | :---: |
| A: Metric Unit Conversions <br> B: Application of Metric Unit Conversions | Units of Measure - Customary Units of Measure - Metric | $\begin{array}{r} \text { / 4.MD. } 1 \\ \text { 4.MD. } 2 \end{array}$ |



| MODUL = 4: Angle Measure and Plane Figures |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Lines and Angles | Identifying and Classifying Lines, Rays, and Segments | $\checkmark$ 4.G.1 |
| B: Angle Measurement <br> C: Problem Solving with the Addition of Angle Measures | Identifying and Comparing Angles Angles | $\begin{aligned} & \text { 4.MD. } 5 \\ & \text { } 4 . M D .6 \\ & \text { 4.MD. } 7 \end{aligned}$ |
| D: Two-Dimensional Figures and Symmetry | Classifying Triangles <br> Classifying Quadrilateral II <br> Symmetry | $\begin{aligned} & \checkmark ~ 4 . G .1 \\ & \checkmark ~ 4 . G .2 \\ & \checkmark ~ 4 . G .3 \end{aligned}$ |

## A Story of Units: Grade 4

| Eureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| :---: | :---: | :---: |
| A: Decomposition and Fraction Equivalence <br> B: Fraction Equivalence Using Multiplication and Division | Modeling Equivalent Fractions <br> Generating Equivalent Fractions <br> Reducing Fractions | $\checkmark$ 4.NF. 1 <br> $\sqrt{ }$ 4.NF.3a * <br> $\checkmark$ 4.NF.3b * <br> $\checkmark$ 4.NF.4a * |
| C: Fraction Comparison | Comparing Fractions - Visual Models <br> Comparing Fractions with Different Numerators and Different Denominators <br> Recognizing Valid Fraction Comparisons II | $\checkmark$ 4.NF. 2 |
| D: Fraction Addition and Subtraction | Adding and Subtracting Fractions with Like Denominators Adding and Subtracting Fractions with Like Denominators in Real-World Situations | $\begin{gathered} \checkmark \text { 4.NF.1* } \\ \text { V 4.NF.3a } \\ \text { V 4.NF.3d } \\ \text { 4.MD. } 2 \end{gathered}$ |
| E: Extending Fraction Equivalence to Fractions Greater than 1 | Decomposing Fractions and Mixed Numbers <br> Writing Fractions as Mixed Numbers and Mixed Numbers as Fractions <br> Understanding Fractions - Relationship Between Numerator and Denominator | $\checkmark$ 4.NF. 1 <br> 4.NF. $2^{*}$ <br> $\checkmark$ 4.NF. 3 <br> $\checkmark$ 4.NF.4a * <br> $\checkmark$ 4.NBT. 6 * <br> 4.MD. 4 |
| F: Addition and Subtraction of Fractions by Decomposition | Word Problems with Fractions and Mixed Numbers - Visual Models <br> Word Problems with Fractions and Mixed Numbers Estimation <br> Adding and Subtracting Mixed Numbers with Like <br> Denominators - Conceptual Strategies <br> Adding and Subtracting Mixed Numbers with Like Denominators | $\begin{array}{r} \text { V 4.NF.3c } \\ \text { 4.MD. } 2 \end{array}$ |
| G: Repeated Addition of Fractions as Multiplication | Multiplying Unit Fractions by Whole Numbers <br> Multiplying Fractions by Whole Numbers <br> Solving Word Problems with Multiplication of Fractions by Whole Numbers | $\begin{array}{r} \checkmark \text { 4.0A. } 2 \\ \checkmark ~ 4 . N F .4 \\ \text { 4.MD. } 2 \\ \text { 4.MD. } 4 \end{array}$ |


| MODULE 6: Decimal Fractions |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Exploration of Tenths <br> B: Tenths and Hundredths | Understanding Fractions with Denominators of 10 and 100 <br> Adding Fractions with Denominators of 10 and 100 <br> Comparing Decimal Fractions <br> Comparing and Ordering Decimal Fractions <br> Decimal Notation I <br> Decimal Notation II <br> Decimals to Hundredths | $\checkmark$ 4.NBT. 1 * <br> $\checkmark$ 4.NF.1* <br> $\checkmark$ 4.NF. 5 <br> $\checkmark$ 4.NF. 6 <br> $\checkmark$ 4.NF. 7 <br> $\checkmark$ 4.MD. ${ }^{*}$ |
| C: Decimal Comparison | Introduction to Comparing Decimals to Hundredths <br> Comparing Decimals to Hundredths <br> Recognizing Valid Decimal Comparisons | $\begin{gathered} \text { v 4.MD. } 1^{*} \\ \text { 4.MD. } 2 \\ \text { v 4.NF. } 7 \\ \hline \end{gathered}$ |
| E: Addition with Tenths and Hundreths | Fraction and Decimal Equivalents Comparing Fractions and Decimals | $\checkmark$ 4.NF.3c* <br> $\checkmark 4 . N F .5 *$ <br> $\checkmark$ 4.NF. 6 <br> $\checkmark$ 4.MD. ${ }^{*}$ |
| F: Money Amount as Decimal Numbers | Imagine Math currently teaches money and decimals in the 5th grade as part of a lesson covering the addition and subtraction of decimals in real-world situations. | $\begin{gathered} \checkmark \text { 4.NF. } 5^{*} \\ \text {, 4.NF. }{ }^{*} \\ \text { 4.MD. } 2 \end{gathered}$ |
| MODULE 7: Exploring Measurement with Multiplication |  |  |
| Eureka Math/EngagenY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Measurement Conversion Tables <br> B: Problem Solving with Measurement <br> C: Investigation of Measurements Expressed as Mixed Numbers | Fraction and Decimal Equivalents Comparing Fractions and Decimals |  |
| Eureka/EngageNY Learning Pathways <br> Updated August 2016 <br> $\checkmark=$ Standard covered by Imagine Math lessons <br> *= Standard covered within different module on the grade-level pathway |  |  |

## A Story of Units Grade 5

## INTRODUCTION: Grade 5

| Eureka Math/FngageNY Topic | Imagine Math Lesson | ccss Addressed |
| :---: | :---: | :---: |
|  | Operations with Whole Numbers - Mixed Practice | Review |
| MOD | $\mathbf{L}$ 1: Place Value and Decimal Fractions |  |
| Fureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| A: Multiplicative Patterns on the Place Value Chart | Understanding Place Value Relationships <br> Place Value Relationships Within Whole Numbers and Decimals <br> Multiplying by Powers of Ten <br> Multiplying and Dividing by Powers of Ten | $\checkmark$ 5.NBT. 1 <br> $\checkmark$ 5.NBT. 2 <br> 5.MD. 1 |
| B: Decimal Fractions and Place Value Patterns | Decimals To Thousandths <br> Comparing Fractions and Decimals <br> Comparing Decimals to Thousandths | $\checkmark$ 5.NBT. 3 |
| C: Place Value and Rounding Decimal Fractions | Rounding Decimals to the Nearest Tenth and Hundredth Reasoning About Rounding Decimals | $\checkmark$ 5.NBT. 4 |
| D: Adding and Subtracting Decimals | Adding and Subtracting Decimals | $\begin{aligned} & \text { 5.NBT.2 * } \\ & \text { 5.NBT.3 * } \\ & \text { 5.NBT. } \end{aligned}$ |
| E: Multiplying Decimals | Multiplying Decimals to Hundredths | $\begin{aligned} & \sqrt{ } \text { 5.NBT.2 * } \\ & \text { 5.NBT. }{ }^{*} \\ & \sqrt{ } \text { 5.NBT. } \end{aligned}$ |
| F: Dividing Decimals | Dividing Decimals to Hundredths | $\begin{aligned} & \text { V 5.NBT. } 3^{*} \\ & \checkmark \text { 5.NBT. } 7 \end{aligned}$ |

## MODULE 2: Multi-digit Whole Number and Decimal Fraction Operations

Eureka Moth/EngageNY Topic
A: Mental Strategies for Multi-Digit Whole
Number Multiplication

Imagine Math Lesson
CCSS Addressed
Multiplying by Powers of Ten
$\sqrt{ } 5.0 \mathrm{~A} .1$
Evaluating Simple Expressions
$\checkmark$ 5.NBT.1*
$\checkmark$ 5.NBT. 2

| B: The Standard Algorithm for Multi-Digit Whole Number Multiplication | Multiplying Whole Numbers - Standard Algorithm | $\checkmark 5.0$ A.1 * |
| :---: | :---: | :---: |
|  |  | $\checkmark$ 5.0A.2* |
|  |  | $\checkmark$ 5.NBT.5 |
| C: Decimal Multi-Digit Multiplication <br> G: Partial Quotients and Multi-Digit Decimal Division | Using Reasoning and Estimation to Calculate with Decimals | $\checkmark 5.0 \mathrm{~A} .1{ }^{*}$ |
|  |  | $\checkmark 5.04 .2$ * |
|  |  | $\checkmark$ 5.NBT.1* |
|  |  | $\checkmark$ 5.NBT. ${ }^{*}$ |
|  |  | $\checkmark$ 5.NBT. 7 |
| D: Measurement Word Problems with Whole Number and Decimal Multiplication | Adding and Subtracting Decimals in Real-World Situation Calculating with Decimals | $\checkmark$ 5.NBT.1* |
|  |  | $\checkmark$ 5.NBT. ${ }^{*}$ |
| H: Measurement Word Problems with Multi-Digit Division |  | $\checkmark$ 5.NBT.5* |
|  |  | $\checkmark$ 5.NBT.6* |
|  |  | $\checkmark$ 5.NBT.7 |
|  |  | 5.MD. 1 |

E: Mental Strategies for Multi-Digit Whole Number Division

F: Partial Quotients and Multi-Digit Whole Number Division

Dividing Whole Numbers - Two Digit Divisors
$\checkmark 5 . N B T .1^{*}$
, 5.NBT.2 *
$\checkmark$ 5.NBT. 6

| MODULE 3: Addition and Subtraction of Fractions |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Equivalent Fractions | Modeling Equivalent Fractions <br> Generating Equivalent Fractions <br> Understanding Fractions - Relationship Between Numerator and Denominator | $\begin{aligned} & \text { V 4.NF.1 } \\ & \text { V 4.NF.3c } \\ & \sqrt{ } \text { 4.NF.3d } \end{aligned}$ |
| B: Making Like Units Pictorially <br> C: Making Like Units Numerically | Adding Fractions <br> Subtracting Fractions <br> Adding and Subtracting Fractions <br> Adding and Subtracting Fractions - Multistep Word Problems | , 5.NF. 1 , 5.NF. 2 |
| D: Further Applications | Adding Fractions - Estimation Strategies <br> Subtracting Fractions - Estimation Strategies | $\begin{aligned} & \checkmark \text { 5.NF. }{ }^{*} \\ & \checkmark ~ 5 . N F .2 \end{aligned}$ |

MODULE 4: Multiplication and Division of Fractions and Decimal Fractions

| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| :---: | :---: | :---: |
| A: Line Plots of Fraction Measurements | Line Plots | $\checkmark 5 . \mathrm{MD} .2$ |
| B: Fractions as Division | Understanding Fractions as Division | $\checkmark$ 5.NF. 3 <br> $\checkmark$ 5.OA.1* <br> $\checkmark$ 5.0A.2* <br> $\checkmark$ 5.NF.4a <br> $\checkmark$ 5.NF. 6 <br> 5.MD. 1 |
| C: Multiplication of a Whole Number by a Fraction <br> D: Fraction Expressions and Word Problems | Multiplying Fractions by Whole Numbers to Solve Multistep Problems |  |
| E: Multiplication of a Fraction by a Fraction <br> F: Multiplication with Fractions and Decimals as Scaling and Word Problems | Multiplying Unit Fractions by Fractions and Understanding Multiplication as Scaling <br> Multiplying Fractions by Fractions <br> Fraction and Decimal Equivalents | $\begin{gathered} \checkmark \text { 5.NBT.7* } \\ \checkmark \text { 5.NF.4a } \\ \text { 5.NF.4b } \\ \text { 5.NF.5 } \\ \checkmark \text { 5.NF.6* } \\ \text { 5.MD. } \end{gathered}$ |
| G: Division of Fractions and Decimal Fractions | Dividing Unit Fractions by Whole Numbers Dividing Whole Numbers by Unit Fractions |  |

H: Interpretation of Numerical Expressions

| Evaluating Simple Expressions | $\checkmark 5.0 A .1$ |
| :--- | :--- |
| Writing Simple Expressions | $\checkmark 5.0 A .2$ |
| Writing and Interpreting Simple Expressions |  |



# A Story of Ratios Grade 6 

## A Story of Ratios: Grade 6

| MODULE 1: Ratios and Unit Rates |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Representing and Reasoning About Ratios | Identifying Ratio <br> Ratios <br> Concept of Ratios and Rates | $\begin{aligned} & \text { V } 6 . R P .1 \\ & \checkmark ~ 6 . R P .3 a \end{aligned}$ |
| B: Collections of Equivalent Ratios | Using Ratios to Solve Problems | $\checkmark$ 6.RP.3a |
| C: Unit Rates | Identifying Unit Rates <br> Solving Problems with Unit Rates <br> Converting Units of Measure I <br> Converting Units of Measure II <br> Distance, Rate, and Time | $\begin{aligned} & \text { V } 6 . R P .2 \\ & \sqrt{ } \text { 6.RP.3b } \\ & \sqrt{ } \text { 6.RP.3d } \end{aligned}$ |
| D: Percent | Percent Concepts <br> Reasoning with Percents <br> Calculations with Percent | $\checkmark$ 6.RP.3c |
| MODULE 2: Arithmetic Operations Including Division of Fractions |  |  |
| Fureka Math/FngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Arithmetic Operations Including Dividing by a Fraction | Using the Relationship Between Multiplication and Division to Divide Fractions <br> Dividing Fractions by Fractions <br> Using Division of Fractions to Represent and Solve Problems <br> Operations with Fractions - Mixed Practice | $\checkmark$ 6.NS. 1 |
| B: Multi-Digit Decimal Operations-Adding, Subtracting, and Multiplying <br> C: Dividing Whole Numbers and Decimals | Dividing Whole Numbers - Standard Algorithm <br> Adding and Subtracting Decimals <br> Adding and Subtracting Decimals in Real-World Situations <br> Using Reasoning and Estimation to Calculate with Decimals <br> Calculating with Decimals | $\begin{aligned} & \checkmark \text { 6.NS. } 2 \\ & \sqrt{ } \text { 6.NS. } 3 \end{aligned}$ |
| D: Number Theory - Thinking Logically About Multiplicative Arithmetic | Greatest Common Factor <br> Greatest Common Factor - Applications <br> Least Common Multiple | $\checkmark 6 . N S .4$ |
| Eureka/EngageNY Learning Pathways $\checkmark=$ Standard covered by Imagine Math lessons <br> Updated August 2016 $*=$ Standard covered within different module on the grade-level pathway |  |  |

## A Story of Ratios: Grade 6

| MODULE 3: Rational Numbes |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| A: Understanding Positive and Negative Numbers on the Number Line | Integer Concepts <br> Integer Concepts with a Number Line | $\begin{aligned} & \text { V 6.NS.5 } \\ & \text { V 6.NS.6a } \\ & \text { V 6.NS.6c } \end{aligned}$ |
| B: Order and Absolute Value <br> C: Rational Numbers and the Coordinate Plane | Integers in the Coordinate Plane I Integers in the Coordinate Plane II <br> Comparing Rational Numbers I <br> Comparing Rational Numbers II <br> Rational Numbers in the Coordinate Plane I <br> Rational Numbers in the Coordinate Plane II <br> Absolute Value I <br> Absolute Value II | $\begin{aligned} & \text { V 6.NS.6b } \\ & \text { V 6.NS.6c } \\ & \text { V 6.NS. } 7 \\ & \text { V 6.NS. } 8 \end{aligned}$ |
| MODULE 4: Expressions and Equations |  |  |
| Fureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Relationships of the Operations <br> B: Special Notations of Operations <br> C: Replacing Letters and Numbers | Identifying and Generating Equivalent Expressions <br> Evaluating Simple Expressions <br> Evaluating Expressions with Two Operations <br> Understanding Exponents <br> Evaluating Expressions and Equations with Exponents | $\begin{aligned} & \checkmark 6 . E E .1 \\ & \checkmark ~ 6 . E E .2 c \\ & \checkmark ~ 6 . E E .3 \\ & \checkmark ~ 6 . E E .4 \end{aligned}$ |
| D: Expanding, Factoring, and Distributing Expressions <br> E: Expressing Operations in Algebraic Form <br> F: Writing and Evaluating Expressions and Formulas | Evaluating Expressions with Real Numbers <br> Evaluating Expressions with the Distributive Property <br> Using the Distributive Property to Represent Real-World Situations <br> Introduction to the Language of Algebra <br> Combining Like Terms |  |
| G: Solving Equations <br> H: Applications of Equations | Reasoning About One-Step Equations <br> Writing and Solving One-Step Equations <br> Independent and Dependent Quantities <br> Introduction to the Language of Algebra <br> Introduction to Solving Word Problems with Algebra <br> Concept of Inequalities | $\checkmark 6 . E E .5$ <br> $\checkmark 6$.EE. 6 <br> $\checkmark 6 . E E .7$ <br> $\checkmark 6 . E E .8$ <br> •6.EE. 9 |
| Eureka/EngageNY Learning Pathways $\checkmark=$ Standard covered by Imagine Math lessons  <br> Updated August 2016 $*=$ Standard covered within different module on the grade-level pathway Page 22 |  |  |

MODULE 5: Area, Surface Area, and Volume Problems

| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| :---: | :---: | :---: |
| A: Area of Triangles, Quadrilaterals, and Polygons | Area of Parallelograms <br> Area of Triangles <br> Area of Trapezoids and Composite Figures | $\checkmark 6 . \mathrm{G} .1$ |
| B: Polygons on the Coordinate Plane | Distance on the Coordinate Plane I <br> Distance on the Coordinate Plane II | $\checkmark 6 . \mathrm{G.3}$ |
| C: Volume of Right Rectangular Prisms <br> D: Nets and Surface Area | Surface Area and Volume of Rectangular Prisms | $\begin{aligned} & \checkmark ~ 6 . G .2 \\ & \checkmark ~ 6 . G .4 \end{aligned}$ |
|  | MODULE 6: Statistics |  |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Understanding Distributions | Data Analysis <br> Measures of Spread - Range <br> Measures of Spread - Median <br> Measures of Center - Mean <br> Line Plots <br> Bar Graphs and Histograms <br> Circle Graphs <br> Stem-and-Leaf Plots | $\begin{aligned} & \sqrt{ } \text { 6.SP. } 1 \\ & \sqrt{ } \text { 6.SP. } 2 \\ & \sqrt{ } \text { 6.SP. } 4 \\ & \sqrt{ } \text { 6.SP.5b* } \end{aligned}$ |
| B: Summarizing a Distribution that is Approximately Symmetric Using the Mean and Mean Absolute Deviation <br> C: Summarizing a Distribution that is Skewed Using the Median and the Interquartile Range <br> D: Summarizing and Describing Distributions | Understanding the Effects of Outliers on Mean and Median <br> Deviation from the Mean <br> Quartiles <br> Box Plots <br> Summarizing Data |  |

# A Story of Ratios Grade 7 

## A Story of Ratios: Grade 7



## A Story of Ratios: Grade 7

| MODUL = 3: Expressions and Equations |  |  |
| :---: | :---: | :---: |
| Eureka Math/FngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Use Properties of Operations to Generate Equivalent Expressions | Common Factors in Polynomials | $\checkmark$ 7.EE. 1 <br> $\checkmark 7 . E E .2^{*}$ |
| B: Solve Problems Using Expressions, Equations, and Inequalities | Angle Pairs <br> Angles in a Polygon <br> Writing and Interpreting Expressions with Rational Numbers <br> Concept of Inequalities II | $\checkmark 7 . E E .3$ <br> $\sqrt{ } 7 . E E .4$ <br> $\checkmark 7 . G .5$ |
| C: Use Equations and Inequalities to Solve Geometry Problems | Circumference <br> Area of Circles <br> Area of Complex Composite Figures <br> Surface Area of Cylinders <br> Surface Area of Pyramids <br> Surface Area of Cones <br> Surface Area of Spheres <br> Surface Area of Composite Solids <br> Surface Area and Volume of Rectangular Prisms | $\begin{aligned} & \checkmark ~ 7 . G .4 \\ & \checkmark ~ 7 . G .6 \end{aligned}$ |
| MODULE 4: Percent and Proportional Relationships |  |  |
| Fureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Finding the Whole <br> C: Scale Drawings | Interpreting Points on Graphs of Proportional Relationships <br> Using Proportions to Solve Problems <br> Proportions in Scale Drawings <br> Introduction to Similar Figures <br> Using Similar Figures to Solve Problems <br> Similarity <br> Using Division to Write Fractions as Decimals <br> Percent and Percent Change <br> Percent and Percent Error | $\checkmark$ 7.RP. 1 <br> $\sqrt{ }$ 7.RP. 2 b * <br> $\checkmark$ 7.RP.2c <br> $\checkmark$ 7.RP. 3 <br> $\checkmark 7 . \mathrm{G}$. |
| B: Percent Problems Including More than One Whole <br> D: Population, Mixture, and Counting Problems Involving Percents | Fraction, Decimal, and Percent Equivalents Simple Interest | $\checkmark$ 7.RP. $1^{*}$ <br> $\checkmark 7 . R P .2$ * <br> $\checkmark$ 7.RP.2c * <br> $\checkmark$ 7.RP. 3 <br> $\checkmark 7 . E E .3$ |
| Eureka/EngageNY Learning Pathways $\quad \checkmark=$ Sta <br> Updated August 2016 ${ }^{*}=\text { Stan }$ | dard covered by Imagine Math lessons ard covered within different module on the grade-level pa | ay $\quad$ Page $\mathbf{2 6}$ |

## A Story of Ratios: Grade 7

| MODUL = 5: Statistics and Probability |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Calculating and Interpreting Probabilities <br> B: Estimating Probabilities | Probability and Sample Spaces <br> Simple Probability <br> Compound Probability <br> Simulations of Simple and Compound Events <br> Making Predictions | $\checkmark$ 7.SP. 5 <br> $\checkmark$ 7.SP. 6 <br> $\checkmark$ 7.SP. 7 <br> $\checkmark$ 7.SP.8a <br> $\checkmark$ 7.SP.8b <br> $\checkmark$ 7.SP.8c |
| C: Random Sampling and Estimating Population Characteristics <br> D: Comparing Populations | Sampling <br> Comparing Data | $\begin{gathered} \text { 7.SP. } 1 \\ \sqrt{ } \text { 7.SP. } 2 \\ \sqrt{ } \text { 7.SP. } 3 \\ \sqrt{ } \text { 7.SP. } 4 \end{gathered}$ |
| MODULE 6: Geometry |  |  |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| A: Unknown Angles | Angle Pairs <br> Angles in a Polygon | $\checkmark 7 . \mathrm{G}$. |
| B: Constructing Triangles | Using Line Segments and Angles to Make Triangles | $\checkmark 7 . \mathrm{G}$. |
| C: Slicing Solids | n/a | 7.G. 3 |
| D: Problems Involving Area and Surface Area | Circumference <br> Area of Circles <br> Area of Complex Composite Figures <br> Surface Area of Cylinders <br> Surface Area of Pyramids <br> Surface Area of Cones <br> Surface Area of Spheres <br> Surface Area of Composite Solids | $\checkmark$ 7.G.6 |
| E: Problems Involving Volume | Surface Area and Volume of Rectangular Prisms <br> Volume of Cylinders <br> Volume of Pyramids and Cones <br> Volume of Spheres <br> Volume of Composite Solids | $\checkmark 7 . \mathrm{G.6}$ |
| Eureka/EngageNY Learning Pathways $\checkmark=$ Standard covered by Imagine Math lessons  <br> Updated August 2016 $*=$ Standard covered within different module on the grade-level pathway Page $\mathbf{2 7}$ |  |  |

# A Story of Ratios Grade 8 

MODULE 1: Integer Exponents and Scientific Notation


## A Story of Ratios: Grade 8

| MODULE 3: Similarity |  |  |
| :---: | :---: | :---: |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| A: Dilation | Dilations | $\checkmark$ 8.G.3 |
| B: Similar Figures | Translations <br> Reflections <br> Rotations <br> Composition of Transformations <br> Angles in a Polygon | $\begin{aligned} & \text { V 8.G.4 } \\ & \text { V 8.G.5 } \end{aligned}$ |
| C: The Pythagorean Theorem | Understanding the Pythagorean Theorem <br> Pythagorean Theorem - Hypotenuse <br> Pythagorean Theorem - Legs <br> Pythagorean Theorem - Mixed Problems <br> Pythagorean Theorem - Distance Formula | $\begin{aligned} & \text { V 8.G.6 } \\ & \text { / 8.G. } \end{aligned}$ |
|  | MODULE 4: Linear Equations |  |
| Eureka Math/EngageNY Topic | Imagine Math Lesson | ccss Addressed |
| A: Writing and Solving Linear Equations | Solving Two-Step Equations <br> Solving Equations with the Variable on Both Sides <br> Analyzing Solution Sets to Linear Equations with the Variable on Both Sides | $\checkmark 8 . E E .7$ |
| B: Linear Equations in Two Variables and Their Graphs <br> C: Slope and Equations of Lines | Interpreting Slope <br> Slope <br> Slope-Intercept Form | $\begin{gathered} \checkmark ~ 8 . E E .5 \\ \checkmark ~ 8 . E E .6 \end{gathered}$ |
| D: Systems of Linear Equations and Their Solutions | Solving a System of Linear Equations Graphically <br> Solving a System of Linear Equations Algebraically <br> Solving a System of Linear Equations - Applications | $\begin{aligned} & \checkmark 8 . E E .5^{*} \\ & \checkmark ~ 8 . E E .8 \end{aligned}$ |
| E: Pythagorean Theorem | Understanding the Pythagorean Theorem <br> Pythagorean Theorem - Hypotenuse <br> Pythagorean Theorem - Legs <br> Pythagorean Theorem - Mixed Problems <br> Pythagorean Theorem - Distance Formula | $\begin{aligned} & \text { V 8.EE. }{ }^{*} \\ & \text { V 8.G. } \end{aligned}$ |
| Eureka/EngageNY Learning Pathways $\checkmark=$ Standard covered by Imagine Math lessons <br> Updated August 2016 $*=$ Standard covered within different module on the grade-level pathway |  |  |



## MODULE 7: Linear Functions

A: Square and Cube Roots
B: Decimal Expansions of Numbers
$\square$

| C: The Pythagorean Theorem | Understanding the Pythagorean Theorem |
| :--- | :--- |
|  | Pythagorean Theorem - Hypotenuse |
|  | Pythagorean Theorem - Legs |
|  | Pythagorean Theorem - Mixed Problems |
|  | Pythagorean Theorem - Distance Formula |

D: Applications of Radicals and Roots
$\checkmark$ 8.G.7 ${ }^{*}$
$\checkmark$ 8.G. 9

## Volume of Composite Solids

## A Story of Functions Algebra

## MODULE 1: Relationships Between Quantities and Reasoning with Equations and their Graphs

A: Introduction to Functions Studied This Year - Graphing Stories

Using Units to Solve Problems
Introduction to Nonlinear Models
$\checkmark$ N.Q. 1
N.Q. 2
$\checkmark$ N.Q. 3
$\checkmark$ A.CED. 2 *

B: The Structure of Expressions

C: Solving Equations and Inequalities

D: Creating Equations to Solve Problems

Writing and Solving Linear Equations in One Variable
Solving Linear Equations in One Variable as a Reasoning Process
Writing and Graphing Linear Equations in Two or More Variables

Writing Linear Inequalities in One Variable
Solving Linear Inequalities in One Variable
Solving Systems of Linear Equations
Solving Linear Equations Graphically
Graphing Linear Inequalities and Systems of Linear Inequalities in Real-World Situations
Solving Literal Equations
Analyzing Solution Sets to Linear Equations with the Variable on Both Sides
$\checkmark$ A.SSE. $2^{*}$
$\checkmark$ A.APR. 1
, N.Q.1*
$\checkmark$ A.SSE. ${ }^{*}$
$\checkmark$ A.CED. 1
$\checkmark$ A.CED. 2
$\checkmark$ A.CED. 3
$\checkmark$ A.CED. 4
$\checkmark$ A.REI. 1
$\checkmark$ A.REI. 3
$\checkmark$ A.REI. 5
$\checkmark$ A.REI. 6
$\checkmark$ A.REI. 10
$\checkmark$ A.REI. 12

## MODULE 2: Descriptive Statistics

A: Shapes and Centers of Distributions

| Data Displays on the Real Number Line | $\checkmark$ S.ID.1 |
| :--- | :--- |
| Measures of Center - Mean | $\checkmark$ S.ID.2* |
| Measures of Center - Median | $\checkmark$ S.ID. 3 |
| Understanding the Effects of Outliers on the Mean and <br> Median |  |

B: Describing Variability and Comparing
Distributions

| Deviation from the Mean | $\checkmark$ S.ID.1* |
| :--- | :--- |
| Quartiles | $\checkmark$ S.ID. 2 |
| Comparing the Shape, Center, and Spread of Data Sets | $\checkmark$ S.ID. 3 |


| C: Categorical Data on Two Variables | Summarizing and Interpreting Categorical Data | $\checkmark$ S.ID. 5 |
| :--- | :--- | :--- |
|  | Data Analysis | $\checkmark$ S.ID. 9 |
|  | Patterns of Association in Data |  |
|  | Correlation |  |

D: Numerical Data on Two Variables

Fitting Functions to Data
$\checkmark$ S.ID. 6
$\checkmark$ S.ID. 7 *
S.ID. 8
$\checkmark$ S.ID. 9

MODULE 3: Linear and Exponential Functions
Eureka Math/EngageNY Topic
Imagine Math Lesson
CCSS Addressed

A: Linear and Exponential Sequences
Writing Geometric Sequences Using an Explicit Formula
Writing Geometric Sequences Recursively
Writing Arithmetic Sequences Explicitly and Recursively
Sequences as Functions
Modeling Exponential Relationships with Equations,
Inequalities, and Graphs

```
\(\checkmark\) F.IF.1*
, F.IF.2 *
\(\checkmark\) F.IF. 3
, F.IF.6 *
\(\checkmark\) F.BF.1a *
\(\checkmark\) F.IE.1*
\(\checkmark\) F.LE.2 *
\(\checkmark\) F.LE. \({ }^{*}\)
```

| B: Functions and Their Graphs | Function Notation | $\checkmark$ F.IF. 1 |
| :---: | :---: | :---: |
|  | Function Notation II | $\checkmark$ F.IF. 2 |
|  | Interpreting Graphs of Linear and Exponential Functions in | $\checkmark$ F.IF. 4 |
|  | Context | $\checkmark$ F.IF. 5 |
|  | Sketching Graphs of Linear and Exponential Functions from a Context | $\checkmark$ F.IF.7a |
|  | Understanding the Domain of a Function |  |
|  | Sketching Graphs of Linear Functions from Symbolic Representations |  |
|  | Sketching Graphs of Exponential Functions from Symbolic Representations |  |
|  | Rate of Change for Linear and Exponential Functions |  |
|  | Comparing Functions Using Different Representations |  |
|  | Distinguishing Between Linear and Exponential Relationships |  |
| C: Transformations of Functions | Transformations of Graphs of Linear and Exponential Functions | $\checkmark$ A.REI.11* |
|  |  | $\checkmark$ F.IF.7a* |
|  |  | $\checkmark$ F.BF. 3 |
| D: Using Functions and Their Graphs to Solve Problems | Writing Linear and Exponential Functions from a Context <br> Writing Linear and Exponential Functions Based on Different Representations <br> Interpreting the Structure of Linear and Exponential <br> Expressions <br> Piecewise, Step, and Absolute Value Functions | $\checkmark$ A.CED.1* |
|  |  | A.SSE.3c* |
|  |  | $\checkmark$ F.IF. $4^{*}$ |
|  |  | $\checkmark$ F.IF. $6^{*}$ |
|  |  | $\checkmark$ F.IF.9* |
|  |  | $\checkmark$ F.BF.a |
|  |  | $\checkmark$ F.LE. 2 |
|  |  | F.LE. 5 |

## MODULE 4: Polynomial and Quadratic Expressions, Equations, and Functions

## Eureka Math/FngageNY Topic

Imagine Math Lesson
ccss Addressed

A: Quadratic Expressions, Equations, Functions, and Their Connection to Rectangles

| Factoring Expressions | $\checkmark$ A.SSE. 1 |
| :---: | :---: |
| Factoring Polynomials | $\checkmark$ A.SSE. 2 |
| Factoring Quadratic Expressions | $\checkmark$ A.SSE.3a |
| Interpreting the Structure of Quadratic Expressions and | $\checkmark$ A.APR. ${ }^{*}$ |
| Expressions with Rational Exponents | $\checkmark$ A.CED. 1 |
| Modeling Quadratic Relationships with Equations, | $\checkmark$ A.CED. 2 |
| Inequalities, and Graphs | $\checkmark$ A.REI.4b * |
| Writing Quadratic Functions from a Context | $\checkmark$ A.REI.11* |
| Sketching Graphs of Quadratic Functions in Context | $\checkmark$ F.IF. 4 |
|  | $\checkmark$ F.IF. 5 |
|  | $\checkmark$ F.IF. 6 |
|  | $\checkmark$ F.IF.7a * |

B: Using Different Forms of Quadratic Functions

Solving Quadratics - Completing the Square
Writing Quadratic Functions From Their Graphs
Solving Quadratic Equations Graphically
Rewriting Quadratics to Reveal Their Structure
Problem Solving with Quadratic Functions
Using the Quadratic Formula
N.RN. 3
$\checkmark$ A.SSE. ${ }^{*}$
$\checkmark$ A.SSE. 2 *
$\checkmark$ A.SSE.3a *
A.SSE.3b
A.APR. $3^{*}$
$\checkmark$ A.CED. $1^{*}$
$\checkmark$ A.CED. 2
$\checkmark$ A.REI. 4
$\checkmark$ F.IF. $4^{*}$
$\checkmark$ F.IF.6*
$\checkmark$ F.IF.7a *
$\checkmark$ F.IF.8a

C: Function Transformations and Modeling
Sketching and Transforming Graphs of Quadratic Functions from Symbolic Representations
$\checkmark$ A.CED. $2^{*}$
$\checkmark$ F.IF. 6 *
$\checkmark$ F.IF.7b *
$\checkmark$ F.IF.8a *
$\checkmark$ F.IF. 9 *
$\checkmark$ F.BF. 3

| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| :---: | :---: | :---: |
| A: Elements of Modeling <br> B: Completing the Modeling Cycle | Elements of modeling are embedded throughout the lessons on this pathway. |  |

## A Story of Functions Geometry

## A Story of Functions: Geometry

## MODULE 1: Congruence, Proof, Constructions

| Eureka Math/EngageNY Topic | Imagine Math Lesson | CCSS Addressed |
| :---: | :---: | :---: |
| A: Basic Construction | Defining Basic Geometric Elements <br> Constructing Angles and Special Line Segments Constructing Inscribed Figures | $\begin{aligned} & \checkmark \text { G.CO. } 1 \\ & \checkmark \text { G.C0.12 } \\ & \checkmark \text { G.C0.13 } \end{aligned}$ |
| B: Unknown Angles | What Is Proof? <br> Proving Theorems About Lines and Angles | $\checkmark$ G.CO.C. 9 |
| C: Transformations/Rigid Motions | Defining Transformations <br> Rotational and Reflectional Symmetry <br> Representing Transformations with Algebra <br> Rigid Motion and Congruence | $\begin{aligned} & \checkmark \text { G.CO. } 2 \\ & \checkmark \text { G.CO. } 3 \\ & \checkmark \text { G.CO. } 4 \\ & \checkmark \text { G.CO. } 5 \\ & \checkmark \text { G.CO. } 6 \\ & \checkmark \text { G.C0.7* } \\ & \checkmark \text { G.C0.12* } \end{aligned}$ |
| D: Congruence | Proving Theorems About Congruent Triangles <br> Problem Solving with Congruent Triangles <br> Proving Theorems About Relationships in Triangles | $\begin{aligned} & \text { V G.C0.7* } \\ & \text {, G.C0. } \end{aligned}$ |
| E: Proving Properties of Geometric Figures | Proving Theorems About Parallelograms | $\begin{aligned} & \checkmark \text { G.CO.9* } \\ & \checkmark \text { G.C0.10* } \\ & \checkmark \text { G.C0.11 } \end{aligned}$ |
| F: Advanced Constructions | n/a | $\checkmark$ G.CO.13* |
| G: Axiomatic Systems | n/a |  |

## A Story of Functions: Geometry

MODULE 2: Similarity, Proof, and Trigonometry
Eureka Math/EngageNY Topic
Imagine Math Lesson
CCSS Addressed

A: Scale Drawings
Proportions in Scale Drawings
$\checkmark$ G.SRT. 1
Properties of Dilations I
$\checkmark$ G.SRT.4*
B: Dilations
Properties of Dilations II
G.MG. 3

|  | Transformations and Similarity |  |
| :--- | :--- | :--- |
| C: Similarity and Dilations | Problem Solving with Transformations and Similarity | $\checkmark$ G.SRT. 2 |
|  |  | $\checkmark$ G.SRT.3 |
| $\checkmark$ G.SRT. 5 |  |  |

E: Trigonometry

| Similarity and Trigonometric Ratios | $\checkmark$ G.SRT.6 |
| :--- | ---: |
| Problem Solving with Similarity and Trigonometric Ratios | $\checkmark$ G.SRT.7 |
| Sine and Cosine of Complementary Angles | $\checkmark$ G.SRT.8 |
| Law of Sines and Law of Cosines | G.SRT.10 |
|  | $\checkmark$ G.SRT.11 |

MODULE 3: Extending to Three Dimensions
Eureka Moth/EngageNY Topic
Imagine Math Lesson
ccss Addressed

A: Area
B: Volume

Understanding Formulas for Curved Figures
Cross Sections of 3-Dimensional Figures
Volume of Cylinders
Volume of Pyramids and Cones
Volume of Spheres
$\checkmark$ G.GMD. 1
G.GMD. 2
$\checkmark$ G.GMD. 3
$\checkmark$ G.GMD. 4
G.MG. 1
G.MG. 2
G.MG. 3

## A Story of Functions: Geometry

## MODULE 4: Connecting Algebra and Geometry Through Coordinates

A: Connecting Algebra and
Geometry Through Coordinates
Coordinates of Parallel and Perpendicular Lines
Problem Solving with Coordinates of Parallel and
Perpendicular Lines
$\checkmark$ G.SRT. 1
$\checkmark$ G.SRT.4*
Perpendicular Lines
G.MG. 3

B: Perpendicular and Parallel Lines in the Cartesian Plane
$\checkmark$ G.GPE.4*
$\checkmark$ G.GPE. 6
$\checkmark$ G.GPE. 7

D: Partitioning and Extending Segments and Parameterization of Lines

MODULE 5: Circles With and Without Coordinates
Eureka Math/EngageNY Topic

Imagine Math Lesson
ccss Addressed

A: Central and Inscribed Angles
B: Arcs and Sectors
C: Secants and Tangents

Tangents, Chords, Radii, and Angles in Circles
Quadrilaterals Inscribed in Circles
Radians and Area of Sectors

Equation of a Circle
Problem Solving with the Equation of a Circle
$\checkmark$ G.C.1*
$\checkmark$ G.C. 2
$\checkmark$ G.C. 3
$\checkmark$ G.C. 4
$\checkmark$ G.C. 5
$\checkmark$ G.GPE. 1
$\checkmark$ G.GPE. 4
, G.C.3*


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