

Reveal Math - Course 2: Modules 1-5

Summer Skill Plan

As you transition into 7th grade math (Course 2), it is essential to reinforce your foundational math skills and prepare for the exciting new concepts ahead. Maintaining a consistent practice routine over the summer will ensure a smooth start to the new academic year and set you up for continued success in more advanced mathematics.

Throughout your summer engagement with math, remember to utilize available resources to deepen your understanding. Tools like "Learn with an Example" and "Watch a Video" can be incredibly helpful when exploring new topics or revisiting challenging areas.

For your Math summer preparation, focus on strengthening your understanding of key concepts from your previous math courses and begin to familiarize yourself with introductory 7th-grade topics. This proactive approach will build confidence and competence for the year ahead.

**Please complete a SmartScore of at least 70
in each skill area**

Suggested Additional Practice

- Review and practice fundamental operations with fractions, decimals, and integers.
- Explore concepts related to ratios, proportions, and percentages.
- Familiarize yourself with basic algebraic expressions and their simplification.
- Engage with word problems that require applying proportional reasoning and operations with rational numbers.
- You should strive to maintain a strong grasp of core mathematical principles.
- Your summer work is a crucial opportunity to review and preview skills, laying a solid groundwork for the demanding curriculum of 7th grade

Please reach out to Mr. Scott @ t.scott@hrs-ken.org if you have any questions as you work through your summer math preparation. Mr. Scott is travelling this summer, so please be patient with a response.

Module 1: Proportional Relationships

Lesson 1-1: Unit Rates Involving Ratios of Fractions

- [Calculate unit rates with fractions 57X](#)
- **Also consider**
 - [Unit rates 2NB](#)
 - [Unit prices N7G](#)
 - [Simplify complex fractions E9H](#)

Lesson 1-2: Understand Proportional Relationships

- [Do the ratios form a proportion? MJQ](#)
- [Do the ratios form a proportion: word problems SHV](#)

Lesson 1-3: Tables of Proportional Relationships

- [Find the constant of proportionality from a table LKZ](#)
- [Identify proportional relationships from tables 6V7](#)

Lesson 1-4: Graphs of Proportional Relationships

- [Interpret graphs of proportional relationships RMH](#)
- [Identify proportional relationships by graphing AAN](#)
- [Find the constant of proportionality from a graph ZUT](#)
- **Also consider**
 - [Identify graphs of proportional relationships FYR](#)

Lesson 1-5: Equations of Proportional Relationships

- [Write equations for proportional relationships from tables 6GU](#)
- [Write equations for proportional relationships from graphs JKH](#)
- **Also consider**
 - [Complete a table and graph a proportional relationship 5DR](#)

Lesson 1-6: Solve Problems Involving Proportional Relationships

- [Solve proportions: word problems WB7](#)
- [Write and solve equations for proportional relationships VKK](#)
- **Also consider**
 - [Solve proportions TDA](#)

Module 2: Solve Percent Problems

Lesson 2-1: Percent of Change

- [Percent of change BL7](#)
- [Percent of change: word problems 54S](#)
- **Also consider**
 - [Percent of change: find the original amount word problems RCM](#)

Lesson 2-2: Tax

- [Sales tax C2U](#)

Lesson 2-3: Tips and Markups

- [Tips and markups YW7](#)
- **Also consider**
 - [Estimate tips Y5R](#)

Lesson 2-4: Discounts

- [Sale prices RH9](#)
- [Sale prices: find the original price BDA](#)
- [Which is the better coupon? QT6](#)
- **Also consider**
 - [Multi-step problems with percents ZHX](#)

Lesson 2-5: Interest

- [Simple interest E7Y](#)

Lesson 2-6: Commission and Fees

- [Commission and shipping and handling EBD](#)
- **Also consider**
 - [Find the percent: tax, discount, and more PBM](#)

Lesson 2-7: Percent error

- [Percent error: word problems 6UY](#)

Module 3: Operations with Integers

Lesson 3-1: Add Integers

- [Add integers using number lines A63](#)
- [Integer addition rules ERH](#)
- [Add integers QFU](#)
- **Also consider**
 - [Add integers using counters FTM](#)
 - [Add three or more integers PBC](#)
 - [Quantities that combine to zero: word problems 7SP](#)

Lesson 3-2: Subtract Integers

- [Subtract integers using number lines FGG](#)
- [Integer subtraction rules QZA](#)
- [Subtract integers HEU](#)
- **Also consider**
 - [Subtract integers using counters BGL](#)
 - [Add and subtract integers FNS](#)
 - [Add and subtract integers: word problems 2DD](#)

Lesson 3-3: Multiply Integers

- [Understand multiplying by a negative integer using a number line NB8](#)
- [Integer multiplication rules K7U](#)
- [Multiply integers DQT](#)

Lesson 3-4: Divide Integers

- [Equal quotients of integers 2QY](#)
- [Integer division rules T9Q](#)
- [Divide integers CTV](#)

Lesson 3-5: Apply Integer Operations

- [Add, subtract, multiply, and divide integers B8A](#)
- [Evaluate numerical expressions involving integers 7YN](#)
- [Evaluate variable expressions LKM](#)

Module 4: Operations with Rational Numbers

Lesson 4-1: Rational Numbers

- [Convert fractions or mixed numbers to decimals M2D](#)
- **Also consider**
 - [Convert between percents, fractions, and decimals 2HW](#)
 - [Compare rational numbers JVR](#)
 - [Put rational numbers in order 28Y](#)

Lesson 4-2: Add Rational Numbers

- [Add positive and negative fractions DMY](#)
- [Add positive and negative decimals Y6V](#)
- [Add rational numbers D79](#)

Lesson 4-3: Subtract Rational Numbers

- [Subtract positive and negative fractions QLV](#)
- [Subtract positive and negative decimals FGV](#)
- [Subtract rational numbers FXY](#)
- **Also consider**
 - [Add and subtract positive and negative decimals WCZ](#)
 - [Add and subtract positive and negative fractions SD2](#)
 - [Add and subtract rational numbers GKU](#)
 - [Apply addition and subtraction rules Y8T](#)

Lesson 4-4: Multiply Rational Numbers

- [Multiply positive and negative fractions K6H](#)
- [Multiply positive and negative decimals VN5](#)
- [Multiply rational numbers FGQ](#)

Lesson 4-5: Divide Rational Numbers

- [Divide positive and negative fractions 92N](#)
- [Divide positive and negative decimals XUH](#)
- [Divide rational numbers C9V](#)
- [Identify quotients of rational numbers: word problems JT9](#)

Lesson 4-6: Apply Rational Number Operations

- **Also consider**
 - [Multiply and divide positive and negative decimals K7V](#)
 - [Multiply and divide positive and negative fractions 2B5](#)
 - [Multiply and divide rational numbers BXW](#)
 - [Apply multiplication and division rules V5V](#)
 - [Evaluate numerical expressions involving rational numbers J7J](#)
 - [Evaluate variable expressions involving decimals GBQ](#)
- **Also consider**
 - [Evaluate numerical expressions involving decimals FNM](#)
 - [Evaluate numerical expressions involving fractions XXQ](#)

Module 5: Simplify Algebraic Expressions

Lesson 5-1: Simplify Algebraic Expressions

- [Identify terms and coefficients E7H](#)
- [Simplify expressions by combining like terms JJG](#)
- [Multiply using the distributive property NUY](#)
- [Write equivalent expressions using properties 6XR](#)
- **Also consider**
 - [Identify equivalent linear expressions using algebra tiles 38V](#)
 - [Multiply using the distributive property: area models JBK](#)
 - [Properties of addition and multiplication MUV](#)

Lesson 5-2: Add Linear Expressions

- [Add expressions RPY](#)

Lesson 5-3: Subtract Linear Expressions

- [Subtract expressions KCX](#)
- **Also consider**
 - [Add and subtract linear expressions 6BT](#)

Lesson 5-4: Factor Linear Expressions

- [Factor linear expressions: area models QRL](#)
- [Factors of linear expressions J9G](#)
- **Also consider**
 - [Sort factors of variable expressions BUX](#)

Lesson 5-5: Combine Operations with Linear Expressions

- [Simplify linear expressions 5TT](#)
- [Identify equivalent linear expressions DRB](#)
- [Identify equivalent linear expressions II KAR](#)
- [Identify equivalent linear expressions: word problems KWH](#)