

# Elementary Instructional Material Adoption Committee

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MATH**

- Evidence demonstrating student achievement
- 93% approval from staff

# Independent Reviews of Instructional Materials by Educators

EdReports.org is an independent nonprofit that publishes free reviews of instructional materials, using an educator-designed tool that measures alignment, usability, and other quality criteria. The reports help districts and educators make informed purchasing and instructional decisions that support improved student outcomes.

**COMPARE MATERIALS**

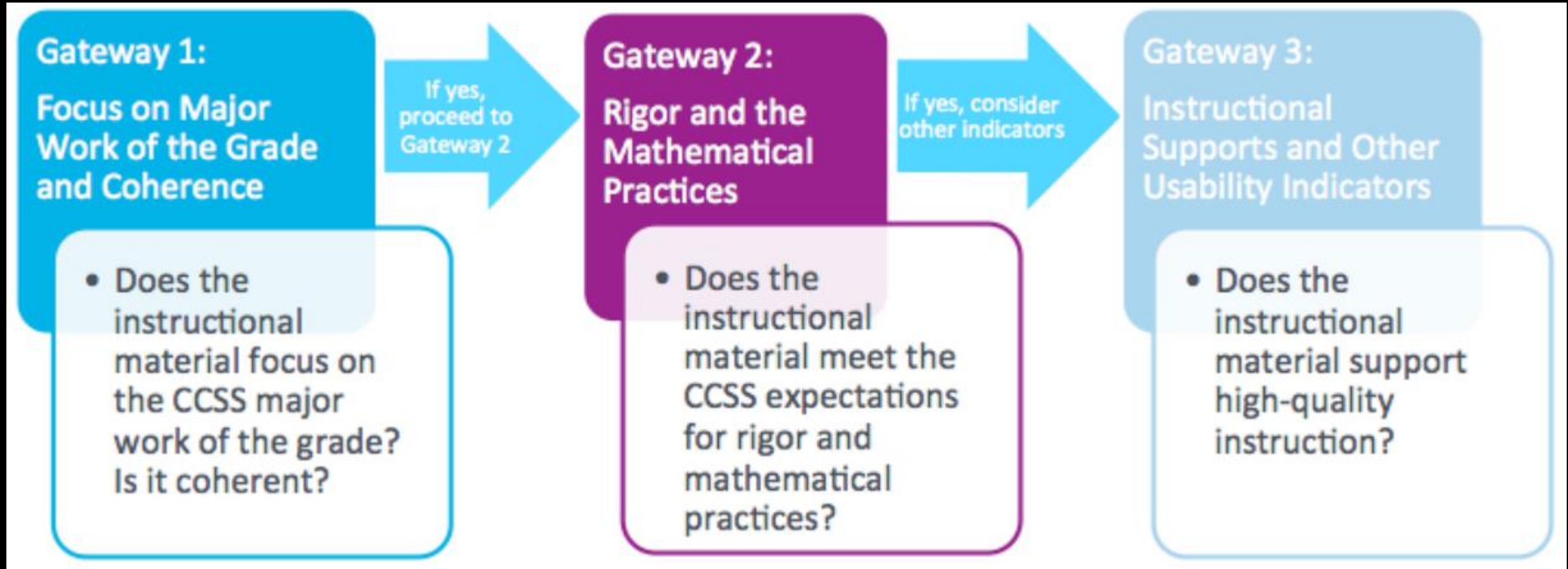
**OUR APPROACH**







































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<http://www.edreports.org>

# Gateway Evaluation Process



<b>Creative Core Curriculum for Mathematics with STEM, Literacy and Art</b> TPS Publishing, Inc. <a href="#">Show Reports</a>	 0/14	 2/14	 0/14	 0/14	 0/14	 0/14	 7/14	 3/14	 7/14
<b>Digits</b> Pearson <a href="#">Show Reports</a>							 12/14	 7/14	 12/14
<b>Edgenuity</b> Edgenuity, Inc. <a href="#">Show Reports</a>							 5/14	 5/14	 10/14
<b>Envision 2.0</b> Pearson <a href="#">Show Reports</a>	 9/14	 8/14	 10/14	 9/14	 7/14	 3/14			
<b>Eureka Math</b> Great Minds <a href="#">Show Reports</a>	 14/14	 14/14	 14/14	 14/14	 14/14	 14/14	 13/14	 14/14	 14/14
<b>Everyday Math 4</b> McGraw-Hill Education <a href="#">Show Reports</a>	 7/14	 10/14	 10/14	 11/14	 11/14	 11/14	 10/14		

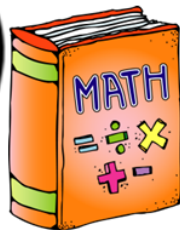
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# Grades K-5 Lesson Structure



**Eureka**



**Fluency**



**Application**



**Concept  
Development**



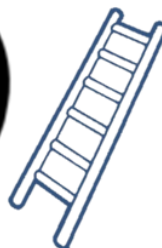
**Problem Set**



**Debrief**



**Homework**



**Exit Ticket**



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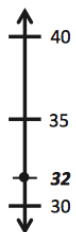
# Meeting the Needs of all Students



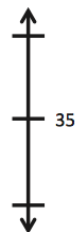
Name \_\_\_\_\_ Date \_\_\_\_\_

1. Round to the nearest ten. Use the number line to model your thinking.

a.  $32 \approx$  \_\_\_\_\_



b.  $36 \approx$  \_\_\_\_\_



c.  $62 \approx$  \_\_\_\_\_



d.  $162 \approx$  \_\_\_\_\_



e.  $278 \approx$  \_\_\_\_\_

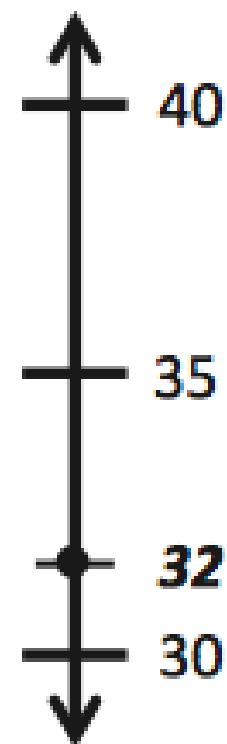


f.  $405 \approx$  \_\_\_\_\_



Round to the nearest ten. Use the number line to model

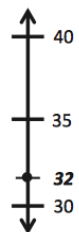
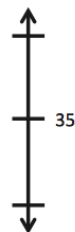
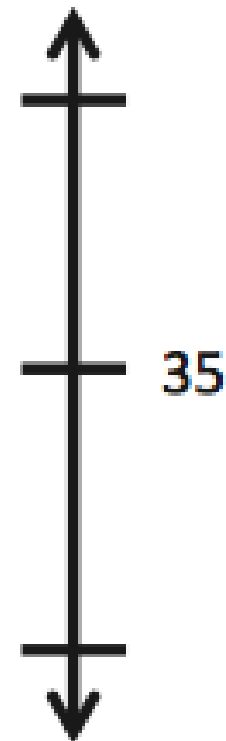
a.  $32 \approx$  \_\_\_\_\_



b.

Name \_\_\_\_\_ Date \_\_\_\_\_

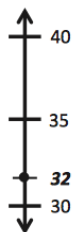
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a.  $32 \approx$  \_\_\_\_\_b.  $36 \approx$  \_\_\_\_\_c.  $62 \approx$  \_\_\_\_\_d.  $162 \approx$  \_\_\_\_\_e.  $278 \approx$  \_\_\_\_\_f.  $405 \approx$  \_\_\_\_\_b.  $36 \approx$  \_\_\_\_\_

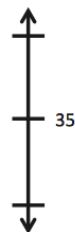
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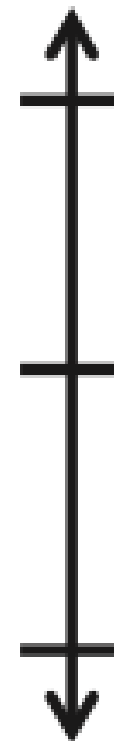
e.  $278 \approx$  \_\_\_\_\_





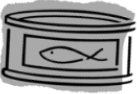
f.  $405 \approx$  \_\_\_\_\_



c.  $62 \approx$  \_\_\_\_\_



2. Round the weight of each item to the nearest 10 grams.


Item
 36 grams
 52 grams
 142 grams

3. Carl's basketball game begins at 3:03 p.m.

a. How many minutes did Carl's basketball game last?

b. Round the total number of minutes to the nearest 10 minutes.

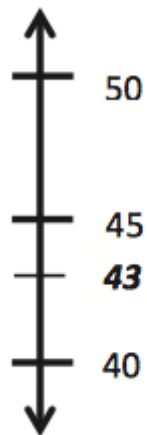
2. Round the weight of each item to the nearest 10 grams. Draw number lines to model your thinking.

Item	Number Line	Round to the nearest 10 grams
 36 grams		


Name \_\_\_\_\_ Date \_\_\_\_\_

1. Round to the nearest ten. Use the number line to model your thinking.

a.  $43 \approx$  \_\_\_\_\_

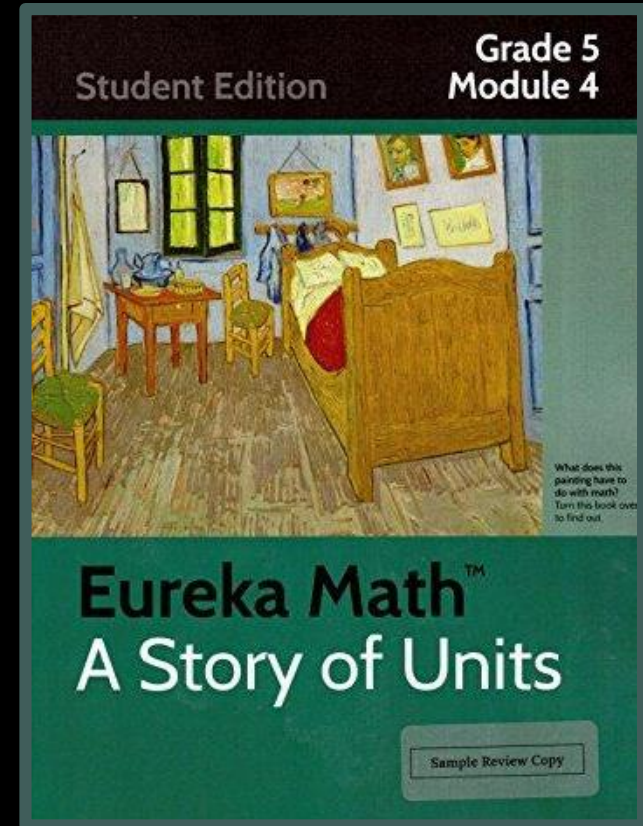


2. Round the weight of each item to the nearest 10 grams. Draw number lines to model your thinking.

Item	Number Line	Round to the nearest 10 grams
 Cereal bar: 45 grams		

# How *Eureka Math* specifically meets the needs of all students

- Scaffolding integrated into each module
- Alternative strategies for how students
  - access information
  - express and demonstrate learning



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# Margin Notes

- Addresses needs presented by:
  - English Language Learners
  - Students with Disabilities
  - Students performing below or above grade level



## NOTES ON MULTIPLE MEANS OF ENGAGEMENT:

Challenge students working above grade level to think of at least two situations similar to that of Problem 3, where choosing the unit to which to round is important to the outcome of the problem. Have them share and discuss.



# Multiple Representations

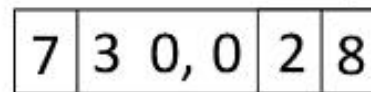
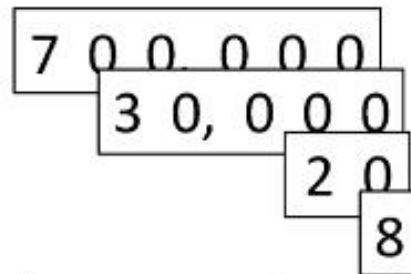
- Number Lines
- Personal white boards
- Place value cards
- Place value chart
- Place value disks
- Tape diagrams

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

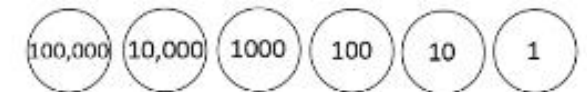
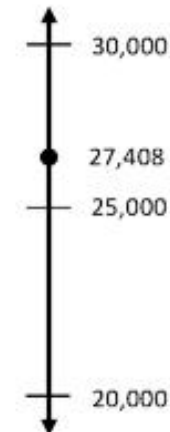
*Place Value Chart with Headings  
(used for numbers or the chip model)*

--	--	--	--	--

*Place Value Chart Without Headings  
(used for place value disk manipulatives or drawings)*



*Place Value Cards*



*Place Value Disks*

# Naturally Differentiated Lesson

- “Must Do” Problems
  - Meets the objective
  - Majority of the class
- “Could Do” Problems
  - Students with greater fluency and understanding
  - Complete more work
- “Challenge” Problems
  - Motivating, especially for advanced students
  - Opportunity to share problems with class

# “Must Do” Problems

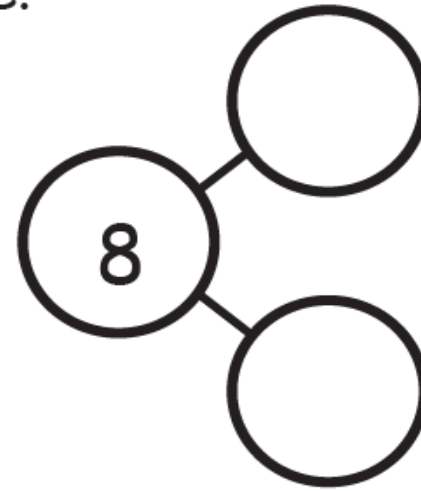
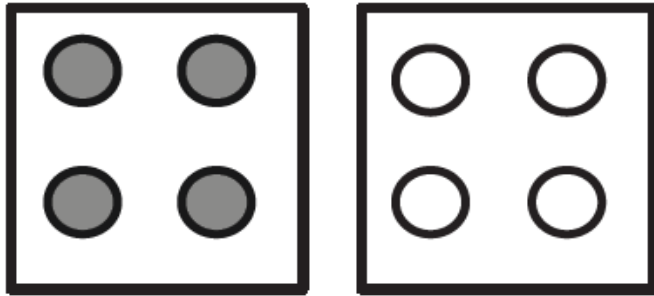
- Remedial work
- Whole class or small group
- Individual students
- Anticipated difficulties

Anticipated Difficulty	“Must Do” Remedial Problem Suggestion
The first problem of the Problem Set is too challenging.	Write a short sequence of problems on the board that provides a ladder to Problem 1. Direct the class or small group to complete those first problems to empower them to begin the Problem Set. Consider labeling these problems “Zero Problems” since they are done prior to Problem 1.
There is too big of a jump in complexity between two problems.	Provide a problem or set of problems that creates a bridge between the two problems. Label them with the number of the problem they follow. For example, if the challenging jump is between Problems 2 and 3, consider labeling these problems “Extra 2s.”
Students lack fluency or foundational skills necessary for the lesson.	Before beginning the Problem Set, do a quick, engaging fluency exercise, such as a Rapid White Board Exchange, “Thrilling Drill,” or Sprint. Before beginning any fluency activity for the first time, assess that students are poised for success with the easiest problem in the set.
More work is needed at the concrete or pictorial level.	Provide manipulatives or the opportunity to draw solution strategies. Especially in Kindergarten, at times the Problem Set or pencil and paper aspect might be completely excluded, allowing

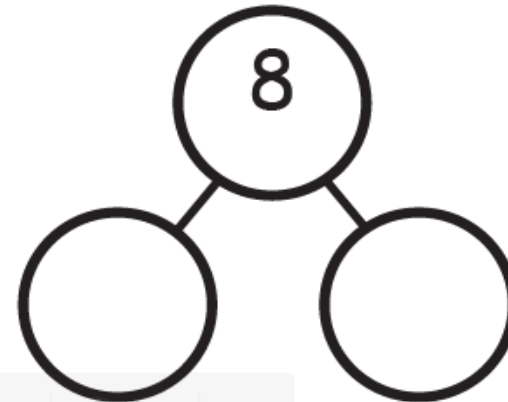
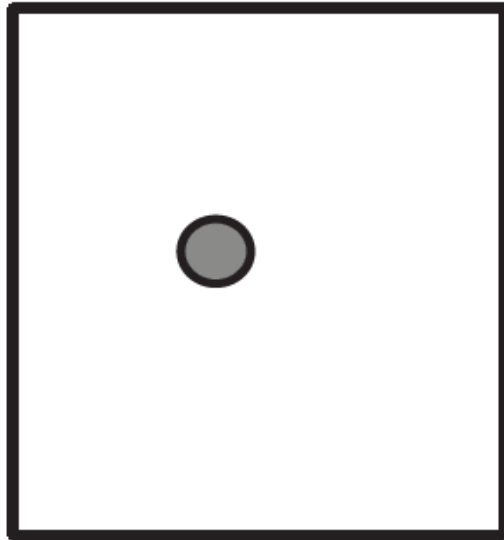
Anticipated Difficulty	“Must Do” Remedial Problem Suggestion
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# K-5 Preparing for Algebra Success

Fill in the number bond to match the picture.



Draw some more dots to make 8 dots in all, and finish the number bond.



1. Fill in the missing numbers in the chart up to 120.

a.

b.

c.

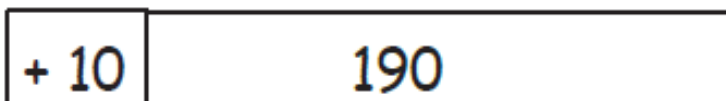
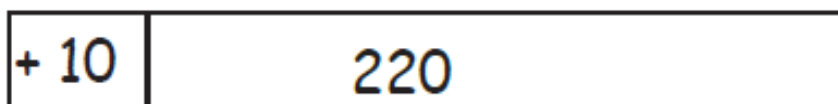
d.

e.

71	81	91		111
	82		102	
73	83	93		113

1. Draw and label a tape diagram to show how to simplify the problem. Write the new equation , and then subtract.

a.  $220 - 190 = \underline{230 - 200} = \underline{\hspace{2cm}}$



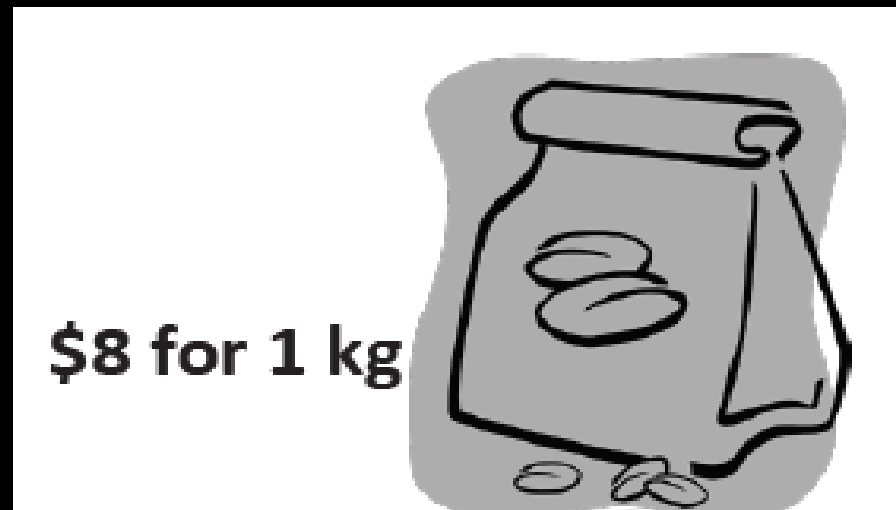


Tara buys 6 packs of printer paper. Each pack of paper costs \$8.

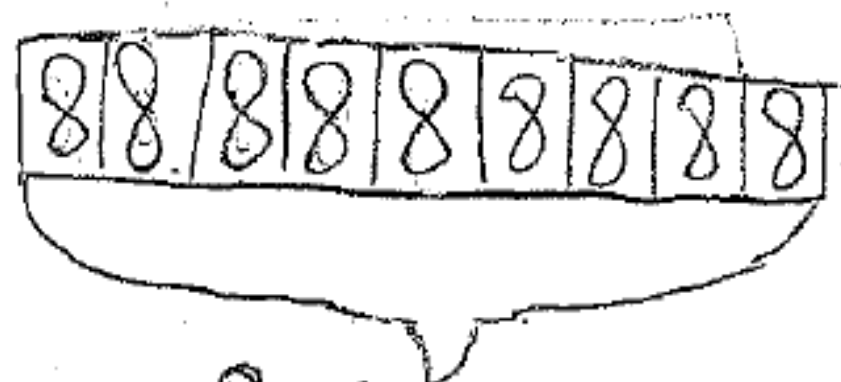
- Draw a tape diagram, and label the total amount she spends as  $m$ .
- Write an equation, and solve for  $m$ .

Mr. Reed spends \$24 on coffee beans. How many kilograms of coffee beans does he buy?

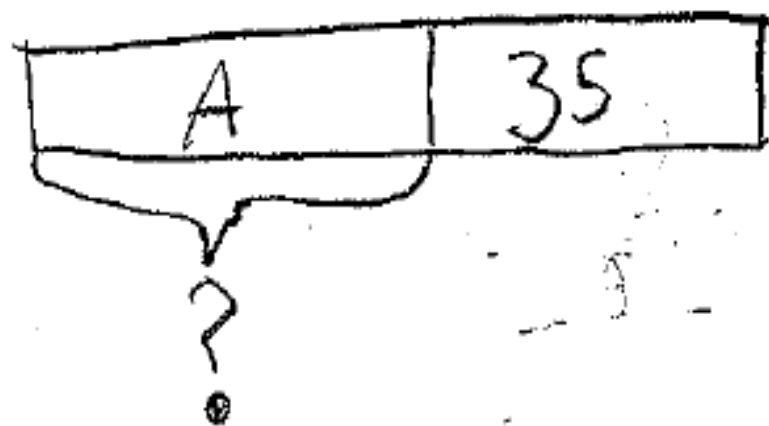
- Draw a tape diagram, and label the total amount of coffee beans he buys as  $c$ .
- Write an equation, and solve for  $c$ .



6. There are 8 erasers in a set. Damon buys 9 sets. After giving some erasers away, Damon has 35 erasers left. How many erasers did he give away?



$$8 \times 9 = 72 \text{ erasers}$$



$$72 - A = 35$$

$$A = 37 \text{ erasers}$$

Damon gave away 37 erasers.

$$\begin{array}{r} 6 \\ 72 \\ - 35 \\ \hline 37 \end{array}$$
$$\begin{array}{r} 37 \\ + 35 \\ \hline 72 \end{array}$$

# 5<sup>th</sup> Grade Module 1

Expanded form →  $30 \times 10 + 5 \times 1 + 2 \times \left(\frac{1}{10}\right) + 7 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right)$

unit form → 3 tens, 5 ones, 2 tenths, 7 hundredths, 6 thousandths

standard form → 35.276

## 5<sup>th</sup> Grade Module 2

A pineapple is 7 times as heavy as an orange.  
The pineapple also weighs 870 more grams than the orange.

- What is the total weight in grams for the pineapple and the orange?

# Support for Home Parents and Students

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## PARENT SUPPORT

As a parent, you are your child's chief advocate and most essential teacher – at homework time and always. To assist in this crucial role, we have assembled a suite of resources that will help you support your child in becoming proficient in math.

[PARENT LETTER](#)



## HOMESCHOOL HELPERS

Homework Helpers are grade-level, spiral bound books which provide step-by-step explanations of how (and why!) to work problems similar to those found in your child's *Eureka Math* homework assignments. There is a Homework Helper to go with every homework assignment in the curriculum. Available for all grades, K - 12.

[LEARN MORE](#)[GET A SAMPLE](#)



## PARENT TIP SHEETS

Eureka provides a series of Parent Module Tip Sheets (K-8) that offer you an overview of the concepts and models your child is learning in each module. We're also developing a series of new Parent Tip Sheets at the topic level that include suggested strategies and models, key vocabulary, and tips for how you can support learning at home. These new Tip Sheets will be posted as they become available through January 2017.

MODULE TIP SHEETS

PARENT TIP SHEETS



## SAMPLE PROBLEMS

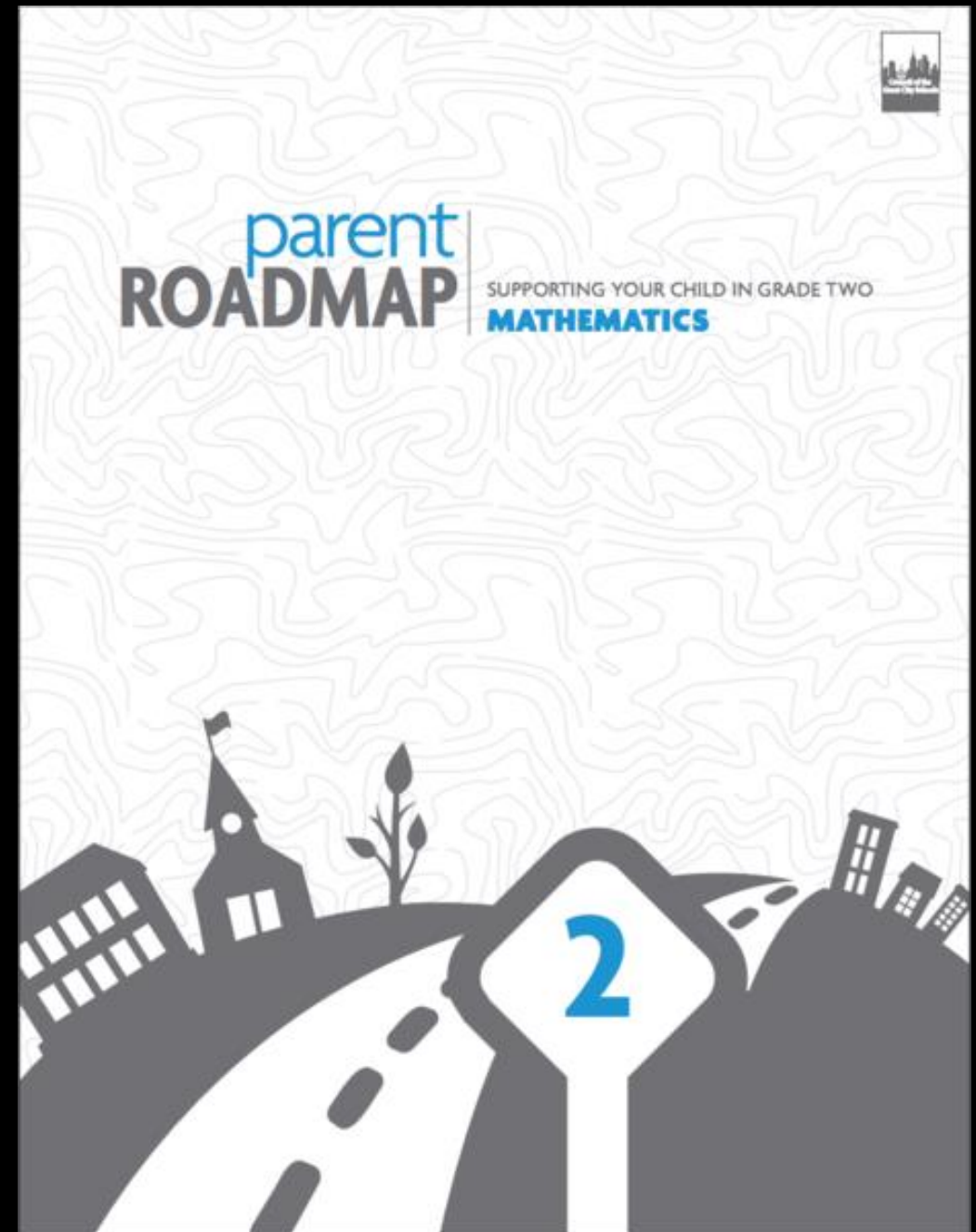
Parents often ask why their children need to learn more conceptual math and why they need multiple strategies for solving problems. This sheet exemplifies three models that give *Eureka Math* students alternative ways to think about mathematical concepts and provide options for solving problems. By knowing multiple strategies, your student will gain a deeper understanding of mathematics and how to use it in daily life.

SAMPLE PROBLEMS



# Grade Level Roadmaps

- Grade specific
- What your child will study
- Learning strategies outside the classroom
- Bridging the gap between what was once taught





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# E

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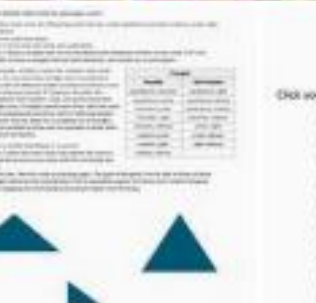
Multiplication and Division Facts

Multiplication and Division Operations

Measurement

Fractions

Decimals



Grade 4 Eureka Math

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As a non-profit, Great Minds offers the *Eureka Math* curriculum as PDF downloads for free, non-commercial use, which allows you to access all of your child's curriculum materials.

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Free Resource for Parents

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