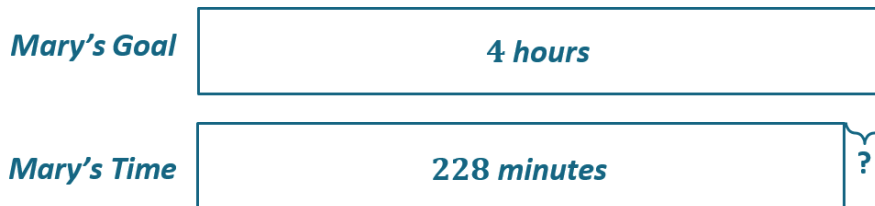# EUREKA MATH™ TIPS FOR PARENTS

KEY CONCEPT OVERVIEW

In Lessons 1 through 5, students convert from one unit of measure to another by using **conversion tables**, and they solve word problems that require converting from a larger unit (or a larger **mixed unit**) to a smaller unit (e.g., feet to inches, pounds and ounces to ounces, gallons to cups).

You can expect to see homework that asks your child to do the following:

- Convert units of length, weight, capacity, and time to smaller units of length, weight, capacity, and time.

- Use the **RDW process** to solve word problems.

- Create word problems based on a given **tape diagram**.

SAMPLE PROBLEM *(From Lesson 5)*

Mary's goal was to finish running a marathon in 4 hours. She completed the marathon in 228 minutes. By how many minutes did Mary beat her goal?

| Mary's Goal | 4 hours |
| Mary's Time | 228 minutes | ? |

1 hour = 60 minutes
4 hours = 4 × 60 minutes = 240 minutes
240 – 228 = 12

Mary beat her goal by 12 minutes.

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Find packages, cartons, cans, or boxes in your kitchen whose labels show weights or capacities. With your child, convert the measurements to smaller units. For example, your milk container might have a capacity of 2 quarts. Convert to find out how many cups that is. (2 quarts = 8 cups) Find real-world situations throughout the day that will help your child think about conversions. For example, ask her whether she would have enough milk for a soup recipe requiring 9 cups if she had a 2-quart container full of milk. (No; 2 quarts is only 8 cups.)

- Challenge your child to convert units of length, weight, capacity, and time. For example, ask him to convert 3 yards 1 foot to inches. (120 inches) After he completes each conversion, allow him to check his work online (e.g., search for "How many inches are equal to 3 yards 1 foot?").

TERMS

Mixed unit: Expressing a number in terms of more than one unit (e.g., 2 gallons 3 quarts, 2 meters 34 centimeters).

RDW process: A three-step process used in solving word problems that requires students to 1) read the problem for understanding, 2) draw a picture or model, and 3) write an equation and a statement of their answer.

MODELS

Conversion Table

Measurement Conversions	
1 kilometer	1,000 meters
1 meter	100 centimeters
1 yard	3 feet
1 foot	12 inches
1 pound	16 ounces
1 kilogram	1,000 grams
1 liter	1,000 milliliters
1 gallon	4 quarts
1 quart	2 pints
1 pint	2 cups
1 minute	60 seconds
1 hour	60 minutes
1 day	24 hours
1 week	7 days

Tape Diagrams