Eureka Math[™] Tips for Parents

Grade 3 Module 2

Place Value and Problem Solving with Units of Measure

This module will tie our place value learning to some realworld work with measurement using the metric system. Students will also work on telling time and solving problems relating to elapsed time.



Thinking mathematically is hard but important work!



What Came Before this Module: We deeply explored the meaning of multiplication and division, working from concrete to abstract examples.

What Comes After this Module: We will continue our work on multiplication and division, this time working to build our knowledge of units of 6, 7, 8, and 9, as well as multiples of 10.

Key Words to Know

Important Metric Words:

Gram (g) Kilogram (kg) Liter (L) Milliliter (mL) Centimeter (cm) Meter (m)

Other math terms:

Analog clock: a clock that is not digital Capacity: the amount that a container can hold Compose: change 10 smaller units for 1 of the next unit on the place value chart Interval: time passed, or a segment on the number line Plot: locate and label a point on the number line Point: a specific location on the number line Round: estimate a number to the nearest 10 or 100 using place value

How you can help at home:

- Ask your student to help with all kinds of measurement around the house
- Continue to practice telling time, and begin to ask questions about elapsed time, e.g., "How many minutes have passed since we got home from school?"

Key Common Core Standards:

- Use place value understanding and properties of operations to perform multi-digit arithmetic
 - \circ Round numbers to the nearest 10 or 100
 - Fluently add and subtract within 1000
- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects
 - Tell and write time to the nearest minute and measure time intervals
 - Measure and estimate liquid volume and mass of objects



A Story of Units has several key mathematical "models" that will be used throughout a student's elementary years.

The number line is a powerful, flexible model that students can use in many ways. In this particular module, students make frequent use of both vertical and horizontal number lines, learning to find endpoints and mark exactly halfway in between them, finding elapsed time, and using them on measuring containers.

As students move through the grades, number lines can be used to examine the relationships between numbers in ever more detailed ways, including decimals, fractions, and eventually positive and negative numbers. See how many number lines you and your student can spot around you at home!



