## Eureka Math Tips for Parents Grade 5 Module 2

## Multiplying and

 Dividing Whole Numbers and DecimalsIn this Module, we will be building up our knowledge of first multiplication and then division. We will start with whole numbers and then move to decimals as we practice different ways to model these operations.

## Sample area model of

 multiplication for $64 \times 73$ :

Thinking mathematically is hard but important work!


## How you can help at home:

$\checkmark$ Become familiar with the area model, a different method of multiplying than you may have learned
$\checkmark$ Continue to review the place value system with your student
$\checkmark$ Discuss mathematical patterns, such as $5 \times 9,5 \times 90,50 \times 90,50 \times$ 900, etc.
$\checkmark$ Read Polly's Pen Pal

## Key Words to Know

## Decimal

A fraction whose denominator
is a power of ten

## Decimal Fraction

A proper fraction whose
denominator is a power of ten

## Fquation

A statement that the values of two expressions are equal

## Estimate

Approximation of the value of a quantity or number

## Product

The result of a multiplication

## Quotient

The result of dividing one quantity by another

## Remainder

The number left over when one integer is divided by another

## Unit Form

Place value counting, e.g. 34 is stated as 3 tens 4 ones

## Key Standards

$\checkmark$ Write and interpret numerical expressions, e.g. "Add 8 and 7, then multiply by 2 " is represented as $2 \times(8$ +7)
$\checkmark$ Perform operations with multi-digit whole numbers and with decimals to the hundredths, e.g. $46 \times 72$, $3.1 \times 33$
$\checkmark$ Convert like measurement units within a given measurement system, e.g. 5 cm is 0.05 m


## A Story of Units has several key mathematical "models" that will be used

 throughout a student's elementary years.The tape diagram is a powerful model that students can use to solve various kinds of problems. In second grade, you will often see this model as an aid to addition and subtraction problems. Tape diagrams are also called "bar models" and consist of a simple bar drawing that students make and adjust to fit a word problem. They then use the drawing to discuss and solve the problem.

As students move through the grades, tape diagrams provide an essential bridge to algebra. Below is a sample word problem from Module 2 solved using a tape diagram to show the parts of the problem.
(Example taken from Lesson 3, Module 2)

Robin is 11 years old. Her mother, Gwen, is 2 years more than 3 times Robin's age. How old is Gwen?


