

MATH NEWS

Grade 1, Module 4, Topic D

1st Grade Math

Module 4: Place Value, Comparison, Addition & Subtraction to 40

Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 4 of Eureka Math (Engage New York) covers Place Value, Comparison, Addition and Subtraction to 40. This newsletter will discuss Module 4, Topic D.

Topic D. Addition of Tens or Ones to a 2-digit Number

Words to know

- Count On
- Make Ten

Make ten is a strategy for addition facts. Students should ask “How many more are needed to make a ten?” and “How many are left over?”

$$8 + 7 = ?$$

10 2 5

$$10 + 5 = 15$$

Start with 8. How many more are needed to make 10? 2

If 2 is taken from 7, how many are left over? 5

$$8 + 7 = 10 + 5 = 15$$

Start with 24. How many more are needed to make 10? 6
If 6 is taken from 8, how many are left over? 2

$$24 + 8 = ?$$
$$24 \xrightarrow{+6} 30 \xrightarrow{+2} 32$$

$$24 + 6 = 30 \text{ and } 30 + 2 = 32, \text{ so } 24 + 8 = 32$$

OBJECTIVE OF TOPIC D

- 1 Use counting on and the make ten strategy when adding across a ten.
- 2 Use single-digit sums to support solutions for analogous sums to 40.
- 3 Add ones and ones or tens and tens.
- 4 Share and critique peer strategies for adding two-digit numbers.

Focus Area– Topic D

Addition of Tens or Ones to a 2-digit Number

Students will begin to use the make ten strategy and the count on strategy to add larger numbers.

Students will begin to notice that smaller addition problems can help with larger ones. Look at Part A of the image below. Remember the two questions asked when using the make ten strategy? In this case a 24 already has a numeral in the tens place, so use a number bond to show the tens and left over ones. Part A shows a number bond for 24 as 20 and 4. Now there is a smaller addition problem $4 + 6$ that can be used to solve this problem. The student will solve $4 + 6$ then add that sum to the 20 left.

24 + 6 = ?

A

$$24 + 6$$

20 4

$$4 + 6 = 10$$
$$20 + 10 = 30$$

B

Draw to solve.
Draw 2 tens and 4 ones,
then draw 6 more ones.
Count to solve.

Counting on is another math strategy for addition facts. Students are given an addition problem $24 + 6 = ?$ In Part B of the image above the student has a visual tool to see what counting on means. Start with 24 (circled), then count on 6 times. 25, 26, 27, 28, 29, 30.

In different lessons within this topic, students will represent the answer to each problem in a place value chart.

$$24 + 6 = 30$$

tens	ones
3	0