

MATH NEWS

Grade 2, Unit 1, Topic C

Fall 2014

2nd Grade Math

Unit 1: Sums and Differences to 20

Math Parent Letter

This document was created to give parents and students a better understanding of the concepts being taught in the Common Core Aligned Engage New York materials. The focus of Unit 1 of Grade 2 is on Addition and Subtraction within 20 and solving one step word problem. This newsletter will discuss Module 1, Topic C.

Topic C. Strategies for Addition and Subtraction Within 100

Words to know

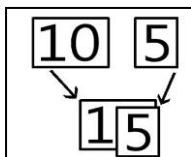
- Pattern
- Number Bond

Things to remember!!!

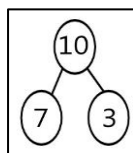
The **make 10** strategy involves memorizing the number combinations that add to 10.

$$\begin{array}{r} 8 + 4 \\ 2 \quad 2 \\ \hline 10 + 2 = 12 \end{array}$$

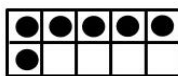
Hide zero cards are single digit and double digit number cards used to create a new number. Place the single digit card on top of the zero (hide the zero) to create a new double digit number.



Number bonds are used to create different Pairs of numbers which make up the same number. A number bond uses a part-whole-part concept to present the relation between the 3 numbers.



A **ten frame** has 10 places to hold dots. This card only has 6 dots and we need 4 more to *make 10*. $6 + 4 = 10$



Focus Area of Topic C

Strategies for Addition and Subtraction within 100

The number pattern below shows the basic fact $3 + 7$. Each addition sentence has this basic fact within it.

$$\begin{array}{l} 3 + 7 = 10 \\ 13 + 7 = 20 \\ 23 + 7 = 30 \\ 83 + 7 = 90 \end{array}$$

Solve the following problem using number bonds.

$$\begin{array}{r} 29 + 5 = \underline{\quad 34 \quad} \\ \begin{array}{l} \wedge \quad \wedge \\ 20 \quad 9 \quad 1 \quad 4 \end{array} \end{array}$$

1. Decompose 29 to tens and ones. 20 and 9
2. What plus 9 equals 10? (1)
3. Decompose 5 to 1 and 4.
4. Find the sum. $20 + 9 + 1 + 4 = 34$

Label each sentence as true or false.

$$\begin{array}{l} 26 + 4 = 20 + 10 \quad \underline{\text{true}} \\ \begin{array}{l} \wedge \\ 20 \quad 6 \end{array} \\ 58 + 5 = 50 + 10 + 2 \quad \underline{\text{false}} \\ \begin{array}{l} \wedge \quad \wedge \\ 50 \quad 8 \quad 2 \quad 3 \end{array} \end{array}$$

58 can be decomposed to 50 and 8. What number can we add to 8 to make 10? (2) Decompose 5 as 2 and 3. To make this sentence true it should be:
 $50 + 8 + 2 + 3 = 50 + 10 + 3$

OBJECTIVE OF TOPIC C

- 1 Add and subtract within multiples of ten based on understanding place value and basic facts.
- 2 Add within 100 using properties of addition to make a ten.
- 3 Decompose to subtract from a ten when subtracting within 100 and apply to one-step word problems.