

Cra

## Combinations of 5



$$\begin{array}{l} 0+5=5 \\ 1+4=5 \\ 2+3=5 \\ 3+2=5 \\ 4+1=5 \\ 5+0=5 \end{array}$$

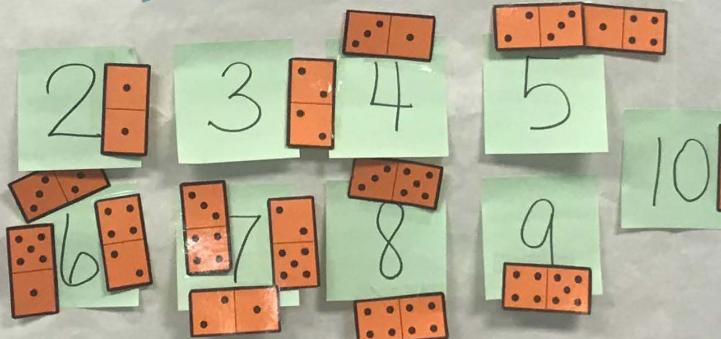
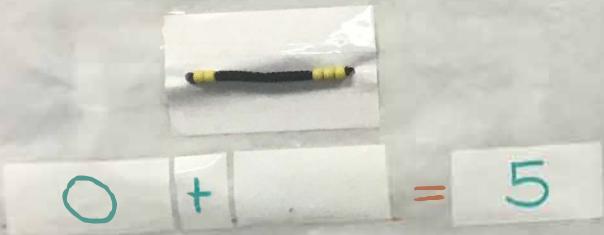
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## Addition and Subtraction

### Representing Addition and Subtraction

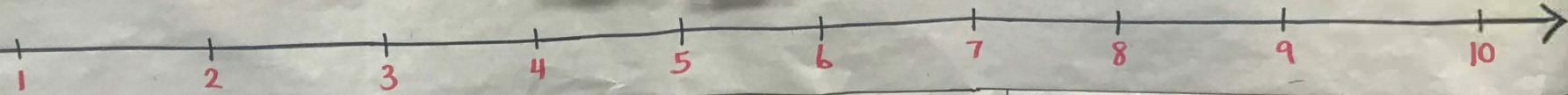


### Domino Addition



$$\begin{array}{l} 0+10=10 \\ 1+9=10 \\ 2+8=10 \\ 3+7=10 \\ 4+6=10 \\ 5+5=10 \\ 6+4=10 \\ 7+3=10 \\ 8+2=10 \\ 9+1=10 \\ 10+0=10 \end{array}$$

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### Standards

KMA1 We can show addition and subtraction with objects, drawings, fingers, acting, etc.

KMA2 We can add and subtract to solve word problems.

KMA3 We can take apart numbers in different ways.

We can find numbers that make 10.

We can add and subtract to 5.

### We know...

- I know  $5+5=10$  (Mikenzie)
- I know there's plus + and equals = (Andy)
- I know that addition is plus +. (Charlie)
- I know add and plus mean you make MORE. (Safiah)

### + and -

### We Want to learn...

- What does the equals mean? (Charlie)  
It is a balance. Both sides must be the same value.
- How can you count backwards? (Emma)  
When you count backwards you are subtracting.
- What does the plus sign mean? (Taydon)  
The plus sign means add... to put groups together.

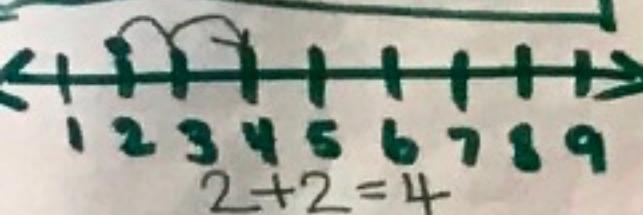
# Strategies for Adding

## Counting On



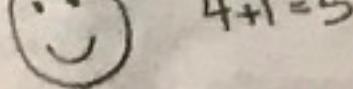
$$5+2=7$$

## Number Line



## Doubles + 1

I know  
 $2+2=4$   
 $4+4=8$



$$\begin{array}{l} 2+2=4 \\ 1+1=2 \\ 4+4=8 \end{array}$$

$$\begin{array}{l} 3+3=6 \\ 6+6=12 \\ 5+5=10 \end{array}$$

$$\begin{array}{l} 10+10=20 \\ 9+9=18 \end{array}$$

## Doubles Facts

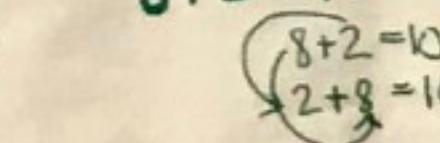
## Counting Carefully

Counting with 1:1



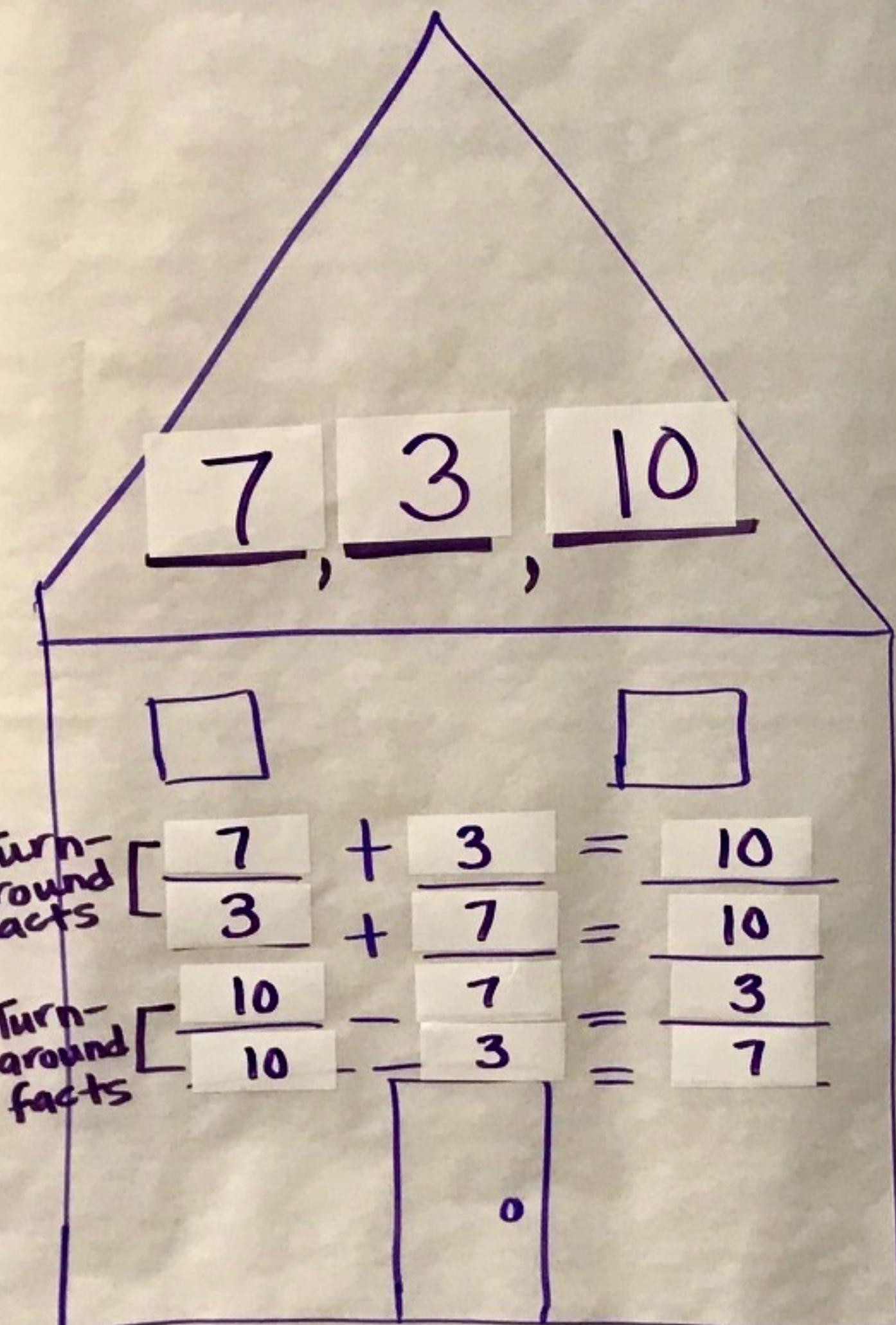
## Turn Around Facts

$$\begin{array}{l} 8+2=10 \\ 2+8=10 \end{array}$$



# Addition and Subtraction II

## Fact Families



## Vocabulary

### Addition

+  
putting together  
all  
plus

$$2+2=4$$

sum

### Manipulatives

000 counters

■■■ cubes

|||| fingers

|||| ten frame

### Subtraction

- take away  
minus

$$2-1=1$$

### Equal

= balance

the same

### Difference

:+ :- = ∵ 2+3=5

$$00000$$

$$5-3=2$$

### Number Sentences

$$\begin{array}{ll} 2+3=5 & 5-3=2 \\ 3+2=5 & 5-2=3 \end{array}$$

### Standards:

K.OA.A.1 Represent addition and subtraction in many ways (sounds, pictures, manipulatives, numerals)

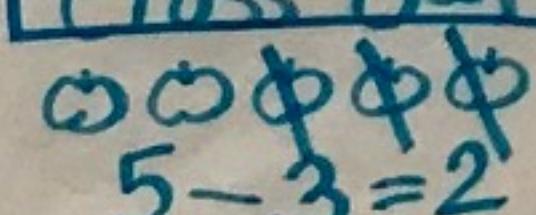
K.OA.A.2 Solve addition and subtraction problems within 10.

K.OA.A.4 For any number 1-9, find the number that makes 10 when added.  $3+ \underline{\quad}=10$

K.OA.A.5 Fluently add and subtract within 5.  
quickly

# Strategies for Subtracting

## Cross Out



$$5-3=2$$

means take away

## Manipulatives



## Counting Backwards

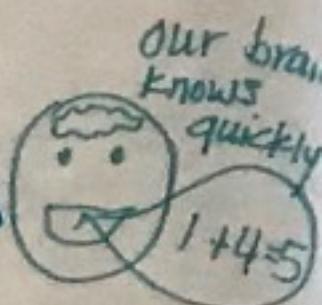
$$\begin{array}{ccccccc} 6 & - & 5 & - & 4 & - & 3 \end{array}$$

## Number Line

$$\begin{array}{ccccccc} 5 & - & 4 & = & 1 \\ \leftarrow & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \end{array}$$

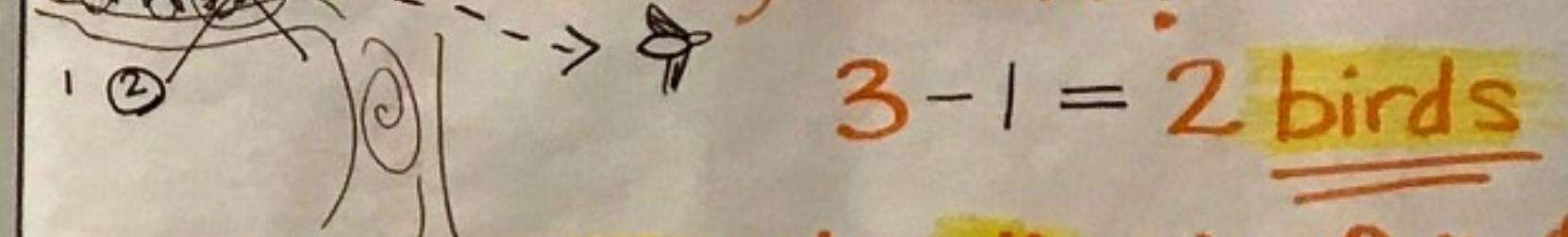
## Fluency

$$\begin{array}{l} 1+3=4 \\ 1+1=2 \\ 2+3=5 \\ 5+0=5 \end{array}$$



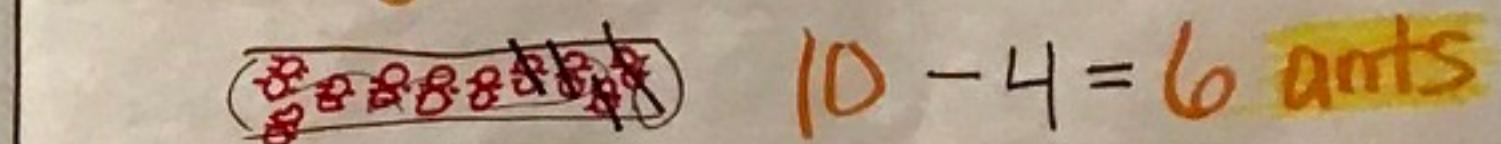
## Solving Story Problems

There are 3 birds. 1 bird flew away.  
How many are left?



$$3-1=2 \text{ birds}$$

There are 10 ants. 4 ants fell off the log. How many are left?



$$10-4=6 \text{ ants}$$

There are 10 butterflies in the sky.  
There are 3 dragonflies in the sky.  
How many insects are there all together?

$$6+3=9 \text{ insects}$$

### We Know...

Subtraction means take away. (Amiyah)

Add means put together. (Efungano)

Subtract is a symbol with a straight line. —

You can add and subtract on your fingers. It's a strategy. (Esequie)

You can switch around the numbers when you add and the answer will be the same.

4+5=9 and 5+4=9 (Mikayla)

### + and -

### We want to know...

Why do we have to learn about subtraction? (Damian)

Why does subtraction mean take away? (Charlie)

Why does addition mean putting together? (Grace)