Parent Literacy and Math Event

K-2
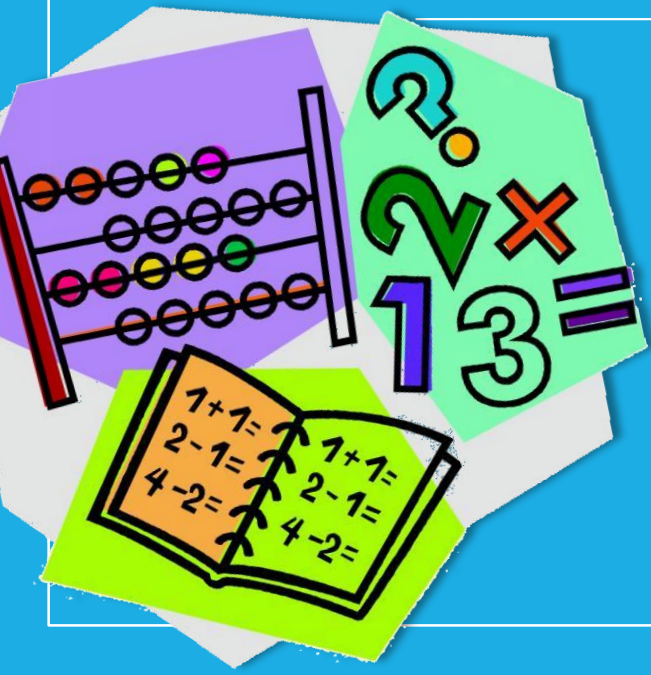
Grade	Required Fluency
Kindergarten	• Add/Subtract within 10 • *Fact Fluency within 5*
1st	• Add/Subtract within 20 • *Fact Fluency within 10*
2nd	• Add/Subtract within 100 • *Fact Fluency within 20*
3rd	• Add/Subtract within 1,000 • Multiply/Divide within 100 • *Multiplication Fact Fluency- all products of two 1-digit numbers*
4th	• Add/Subtract within 1,000,000 (standard algorithm) • Multiply up to a 4-digit number by a 1-digit number and two 2-digit numbers • Divide up to a 4-digit dividend by a 1-digit divisor
5th	• Multiply multi-digit numbers (standard algorithm) • Divide by a 2-digit divisor

Kindergarten

- Count to 100 by 1s and 10s

- Count forward starting at any given number (instead of having to begin at 1)

- Write numbers 0-20

- Count to answer "how many?" for up to 20 objects

Our Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Kindergarten

- Describe objects and shapes in the environment using terms such as above, below, beside, in front of, behind, next to. (Ex. The dog is beside the doghouse, under the tree.)

- Identify 2-d and 3-d shapes as 2-d or 3-d

- Name shapes

Square	Rectangle
Circle	Triangle
Hexagon	Cube
Sphere	Cylinder
Cone	
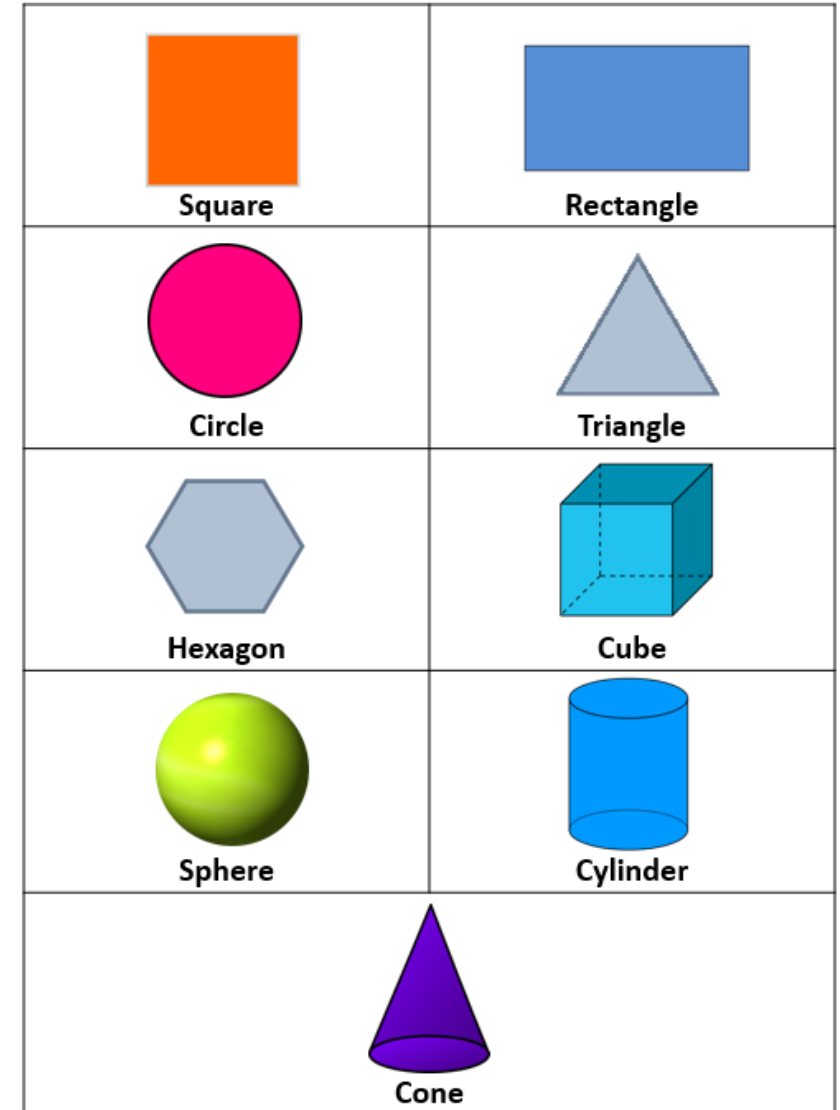
Kindergarten

- Sort objects into different categories (based on sized, shape, color, etc.) order the categories by count
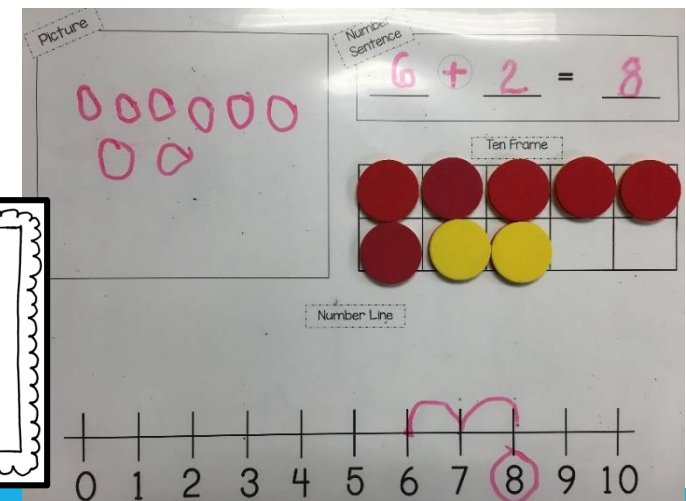

Sorted by color

Sorted by size

- Represent addition and subtraction using objects, fingers, drawings, etc.

- Solve addition and subtraction word problems within 10 using objects or drawings to represent the problem

6 birds were in a tree.

2 more birds landed in the tree.

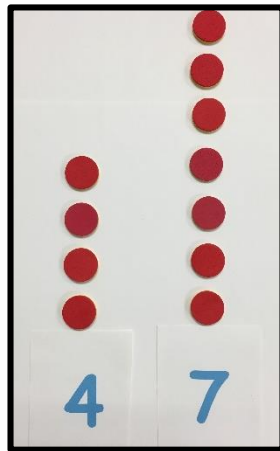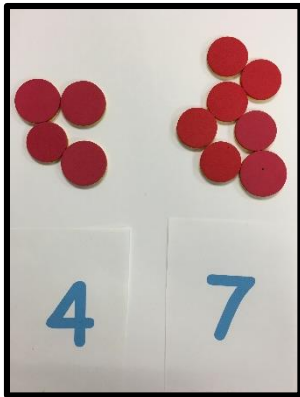How many birds are in the tree now?

Kindergarten

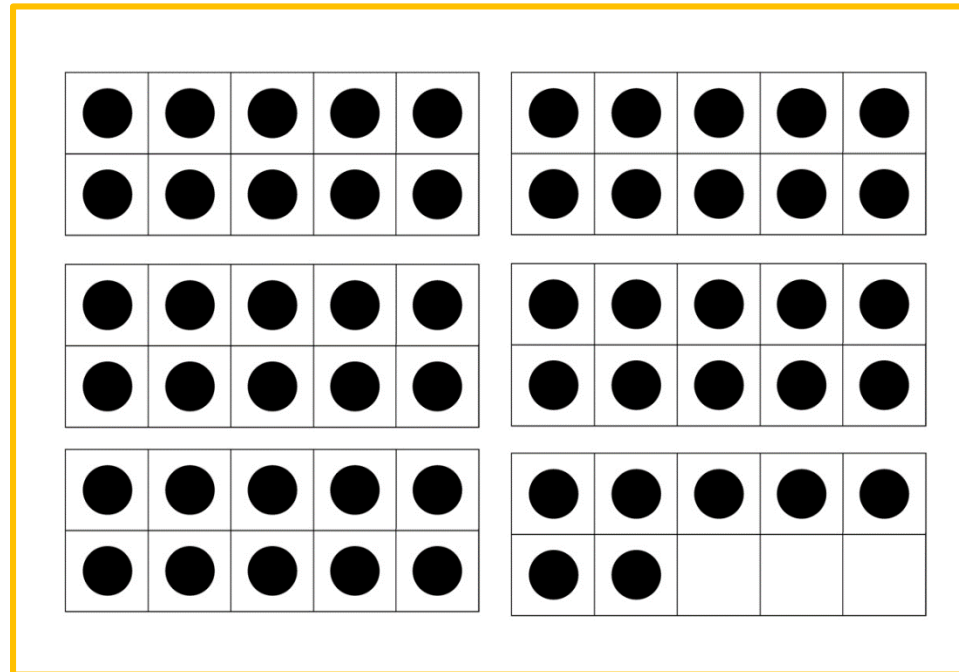- Break apart numbers less than or equal to 10 into pairs in more than one way
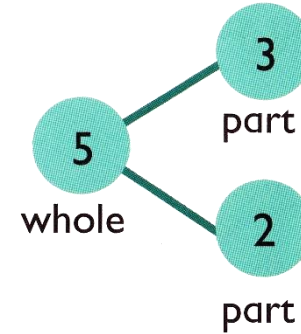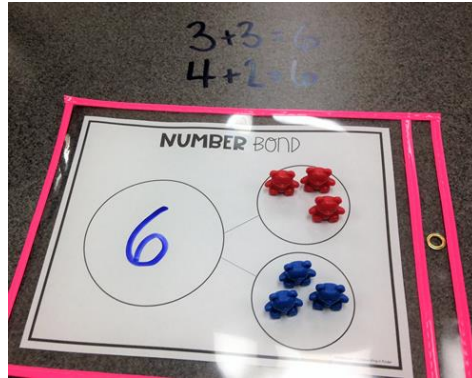
- Identify if the number of objects in one group is greater than, less than, or equal to the number of objects in another group

- Compare two numbers 1-10

First Grade

- Count to 120 starting at any number less than 120

- Read and write numerals 1-120

- Represent a number of objects with a written numeral

First Grade

- Add and subtract within 20 to solve word problems

3 birds are in a tree. 5 birds are flying. How many birds are there in all? Explain your thinking in numbers, words, or pictures.

There are 9 cookies. Jake eats 3. How many cookies are left? Explain your thinking in words, numbers, or pictures.

10 ducks are in the pond. 2 ducks are yellow. The rest are white. How many ducks are white? Explain your thinking in words, numbers, or pictures.

There were 5 boys at Jake's party. Some more came after basketball practice. Then there were 9. How many boys came to Jake's party after basketball practice?

Mike made 6 snowballs. Some of them melted. Mike now has 4. How many snowballs melted? Explain your thinking in words, numbers, or pictures.

- Addition and subtraction fact fluency within 10 (by end of year)

First Grade

- Understand how addition and subtraction are related

- Determine if equations are true or false

$$4+1 = 2+3$$

TRUE   FALSE

- Determine the unknown in an addition or subtraction equation

1. Draw more apples to solve $4 + ? = 6$.

4 $(+)$ 2 $=$ 6

I added _2_ apples to the tree.

Second Grade

- Use addition and subtraction within 100 to solve one- and two-step word problems

Julie has 35 books. Julie has 10 more books than Lucy. How many books does Lucy have? How many books do they have together?
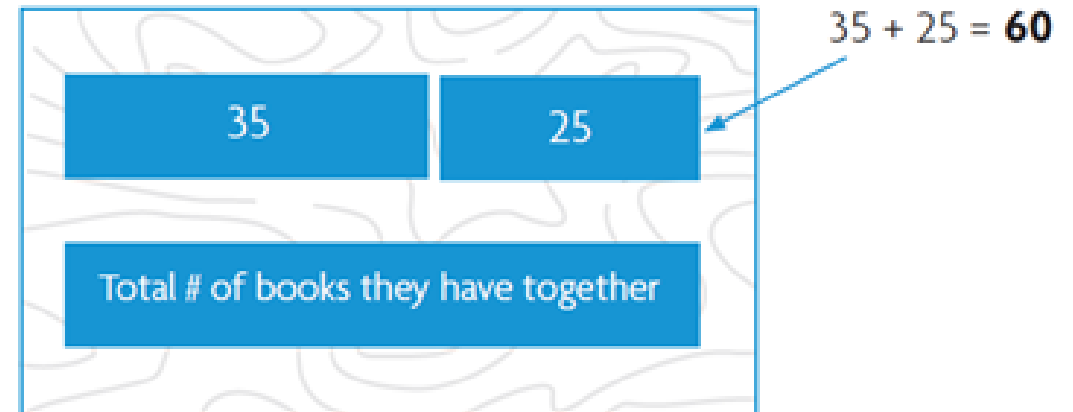
Step 1: If Lucy has 10 less books than Julie, students first need to figure out what 10 less than 35 is.

35 books – 10 books = 25 books

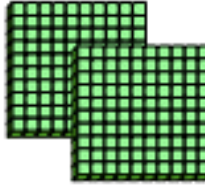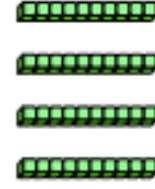| Julie	35
Lucy	?	10

25 + 10 = 35
35 – 10 = **25**
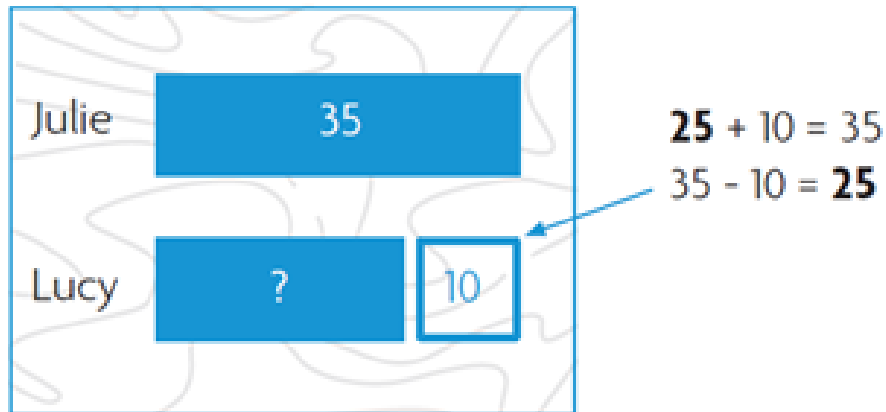
Step 2: Students then have to add the number of books Julie has to the number of books Lucy has.
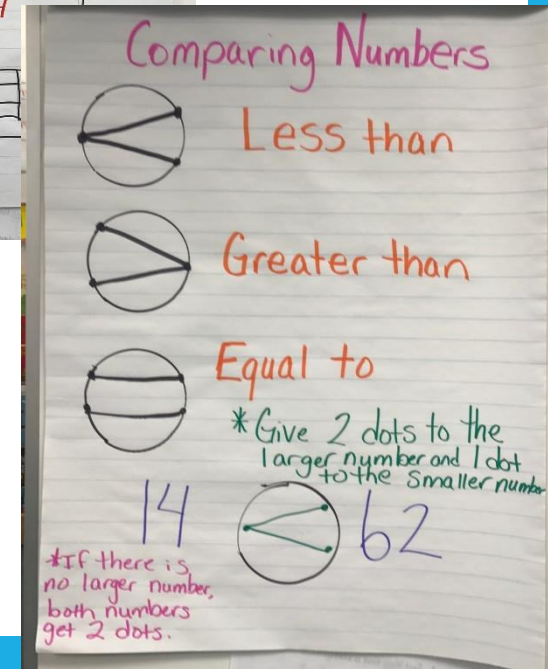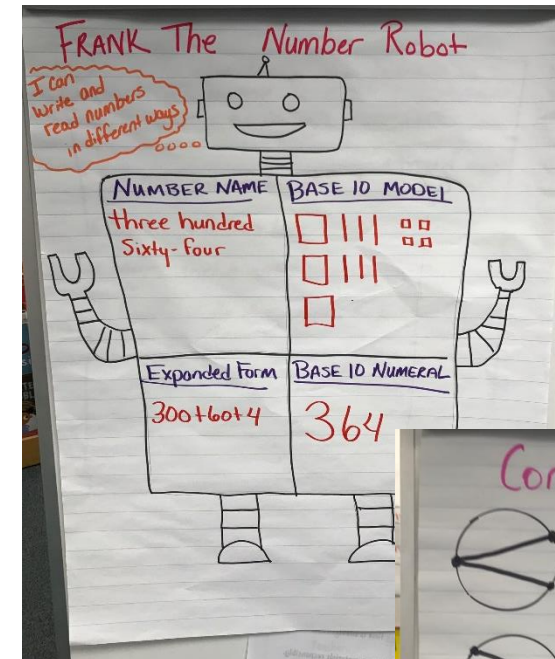
35 books + 25 books = 60 books

35 + 25 = **60**

35	25
Total # of books they have together	

Second Grade

- Understand what the different digits in a three digit number represent

- Read and write numbers to 1,000 using numerals, words, and expanded form

- Compare two 3-digit numbers using the symbols >, <, =

Second Grade

- Know the values of coins: pennies, nickels, dimes, quarters
- Solve word problems involving money less than $1

1. Kelly has 5 nickels and 9 pennies. Does she have enough money to buy a pencil that costs 50¢?

yes or no

Kelly has _____ ¢.

- Tell and write time to the nearest 5 minutes, using a.m. and p.m.
- Add and subtract within 100 using *place value strategies*

Addition Strategies

Ways to Add 2-Digit Numbers

Strategies

* Base Ten Blocks
* Decomposing
* Place Value

Base Ten Blocks

33 + 12 = (45)

Uses base ten blocks to represent the numbers. Count them up.

33 + 12

Decomposing

33 + 12 = 45

30 + 3   10 + 2

30 + 10 = 40
3 + 2 = 5

40 + 5 = (45)

Uses expanded form to add the numbers

Place Value

33 + 12 = 45

Tens	Ones
30	3
10	2
40	5

40 + 5 = (45)

Addition Strategies

Base Ten Blocks
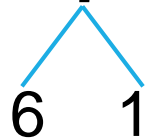
24+37= 61
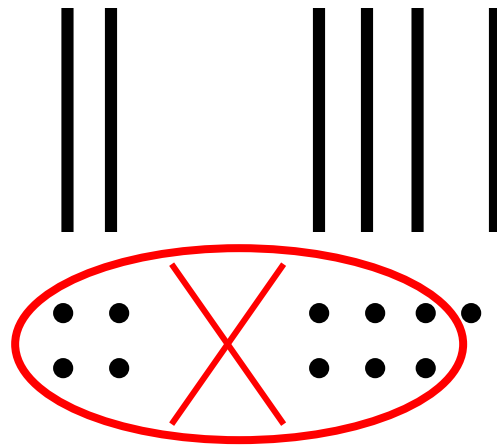
Addition Strategies

Decomposing

$$54+27= 81$$

$$54+20= 74$$

$$74+7=$$
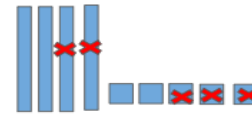
6   1

$$74+6=80$$

$$80+1=81$$

Subtraction Strategies

Ways to Subtract 2-Digit Numbers

Strategies
* Base Ten Blocks
* Decomposing
* Place Value

Base Ten Blocks

45 - 23 = (22)

Uses base ten blocks to represent the numbers. Count them up.

45-23

Decomposing

45 - 23 =

40 + 5   20 + 23

40 - 20 = 20
5 - 3 = 2

20 + 2 = (22)

Uses expanded form to subtract the numbers

Place Value
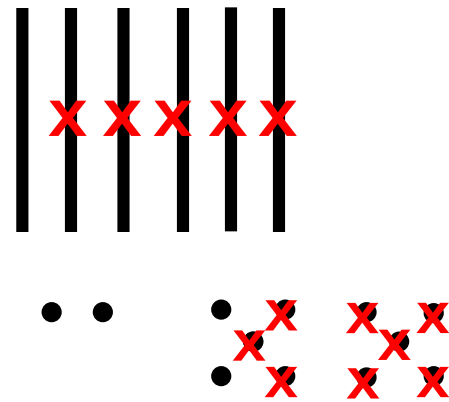
45 - 23 =

Tens	Ones
40	5
− 20	3
20	2

20 + 2 = (22)

Subtraction Strategies

Base Ten Blocks

$$62-48= 14$$

Subtraction Strategies

Decomposing

43-25= 18

43-20=23
23-5=18

Games to Play with a Deck of Cards

http://www.pepnonprofit.org/uploads/2/7/7/2/2772238/acing_math.pdf

http://www.coffeecupsandcrayons.com/simple-math-card-games/

eLearning Resource for Parents and Students

Math - https://wke.lt/w/s/CcQxLu

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