HELP ME HELP MYSELF!

Professional Development to create and enhance Student-run Learning centers.

NOVember 3rd, 2015

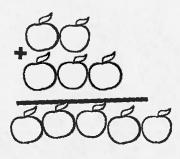


KELLY GLYNN
J.B. FISHER ELEMENTARY
TITLE I MATH
KGLYNN@RICHMOND.K12.VA.US
FISHERMATHRULES.WEEBLY.COM



used the used the strategy strategy same same different strategy. l used a different strategy. nsed a disagree disagree agree agree

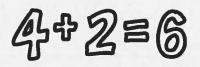
Math Strategies



draw a picture

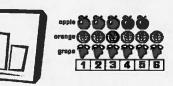


find a pattern

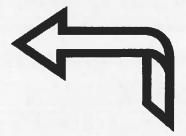


write a number sentence

input	output	
1	3	100
2	4	
3	5	11 11
4	6	



make a chart, table, or graph



work backwards



act it out

Problem Solving Strategies

Draw a picture



Guess and



check



Make a list



Make a table

A	В	C
1	2	3

Act it out





Work backwards



start from the end

Write a number sentence

10 + 4 = 14

Use objects







LUMINOUSLEARNING

www.luminouslearning.com

ental Math Strategy

Mental Math Addition Strategies

1. Counting On

Begin with the highest number in the equation and count up. Example: For 3+7, begin with 7 and think "8,9,10."

2. Doubles

Know (with automaticity) the doubles facts: 3+3, 5+5, 9+9, etc.

3. Doubles Plus One

Use a doubles fact to figure out the equation.

Example: For 6+7, think "I know that 6+6=12, and one more is 13."

4. Making Ten

Know (with automaticity) the combinations that can be added to make ten.

Example: 6+4, 7+3, 5+5, etc.

5. Making Multiples of Ten

Use knowledge of "making ten" facts to add larger numbers that equal a multiple of 10.

Example: For 24+6, know that 4+6=10, so 24+6=30.

6. Front End Addition

In a 2-digit plus 2-digit equation, add from left to right. Example: For 24+32, add 20+30 to make 50, then add 4+2 to make 6. Finally, add 50+6 to make 56.

Mental Math Subtraction Strategies

1. Counting Back and Counting Up

For **Counting Back**, begin with the minuend (highest number) and count back.

Example: For 8-3, begin with 8 and count back, "7,6,5."

For Counting Up, begin with the subtrahend and count up.

Example: For 9-6, begin with 6 and count up, "7,8,9."

2. Thinking Addition

Know that there is an inverse relationship between addition and subtraction. Use a known addition equation to solve a related subtraction equation. Example: For 15-8, use the related addition equation 7+8=15 to find the difference of 7.

3. Using Doubles and Building on Doubles

Use knowledge of doubles facts and "near doubles" facts to solve a subtraction equation.

Example: 12-6, think "I know that 6+6=12, so 12-6=6." For 13-6, think "I know that 13 is one more than the double of 6, so the answer is one more than 6."

4. Using Ten

Change a number to ten, and add the remainder to the difference.

Example: For 14-8, first perform 10-8=2, then add the remaining 4 to make 6.

5. Compensation

Change one number in the equation to make it easier to solve.

Example: For 16-9, first change the 9 to a 10, and perform 16-10=6. Now,

because you subtracted one too many, add 1 to the answer to make 7.

6. Expanding the Subtrahend

Break the subtrahend into more manageable parts.

Example: For 36-13, first perform 36-10=26, then subtract 3 more to make 23.

m. m. m. m. m. m. m. m. m.

4	$\widehat{\mathbf{w}}$	all 3
3	2	w
3	3	3
3	Ĩ,	m.m.

Operations Rockin

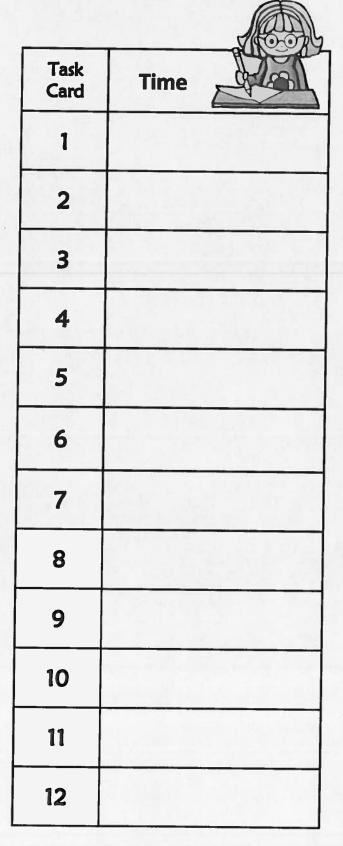
			13
(Fage 2)	3	<u>9</u>	20.mm. W
recording sheet		(<u>S</u>)	J. www. www
	(°C)	4	
Student	õ	SO CONTRACTOR OF THE PARTY OF T	A CAAN - CAAN - CL

©Kristin Kennedy

Telling Time Practice

Recording Form

Name		
Date		



7	4 3	
Task Card	Time	2
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		1
24		1

Name: Date:	Answer				ing blocks.					
~ 30	Card #	4	Ŋ	9	the follow	\Diamond		*		
ones	Answer				Write a word problem using the following blocks.					
Place Value Tens and Ones	Card #	4	8	ო	Write a w					
	Answer									
Name: Date:	Ans				ring blocks					
Name: Date:	Card Ans	4	20	9	the following blocks	\Diamond				
Place Value Tens and Ones Date:		4	10	9	Write a word problem using the following blocks.					

©Shelly Anton - For Buyer's Single Classroom Use Only - Not to Be Posted on a School Website or Internet http://www.teacherspayteachers.com/Store/Promoting-Success