Math Strategies We Use in 2nd Grade

1.   Chase

$$+100 \quad +30 \quad -1$$

223   323 352 353

223 + 129 = 352 yo-yos

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1.   Anna

223
+ 129
———
300 + 40 + 12 = 352

352 yo-yos

223
+ 129
———
352

$2 + 100 = 102$
$102 + 20 = 122$
$122 + 5 + 2 = 129$

$+2 \quad +100 \quad +20 \quad +5 \quad +2$

223 225   325   345 350 352
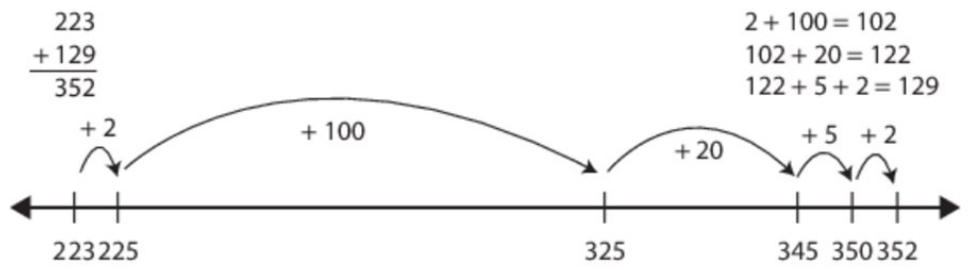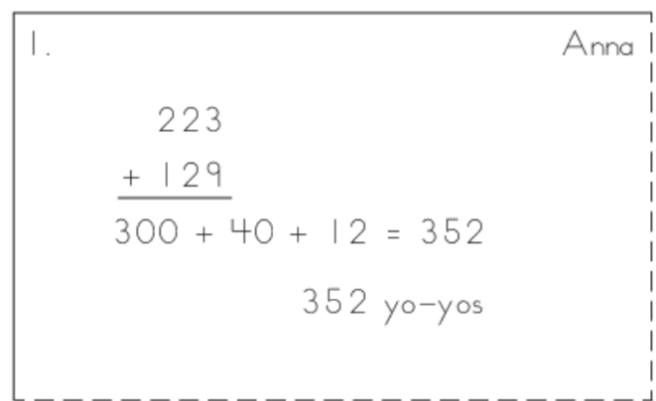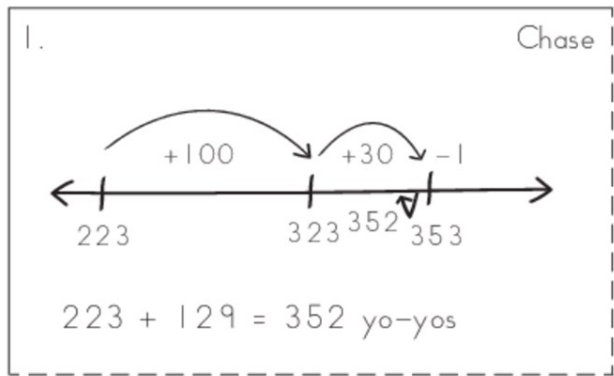
Here are some examples of students using different strategies:

223
+ 129
_____

+2
+100
+20
+5 +2

223 225   325   345 350
                                    352

2 + 100 = 102
102 + 20 = 122
122 + 5 + 2 = 129

223
+ 129
_____
                                    − 1

+100
+10 +10 +10

223   323   333   343 353
                                352

100 + 10 + 10 + 10 = 130
130 − 1 = 129

1. 223 + 129 = 352   Sam

☐ ☐ ‖ X X X
☐   ‖ X X X   X X X
         X X X

352 yo-yos
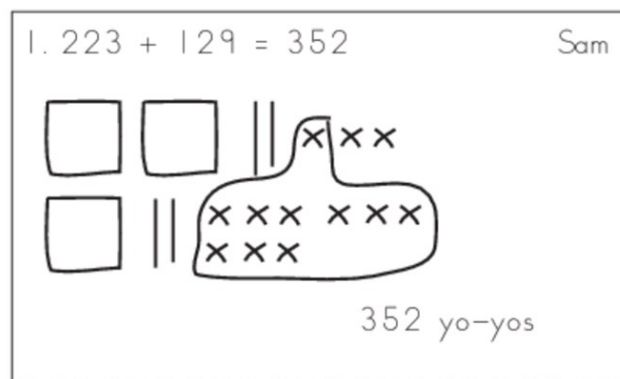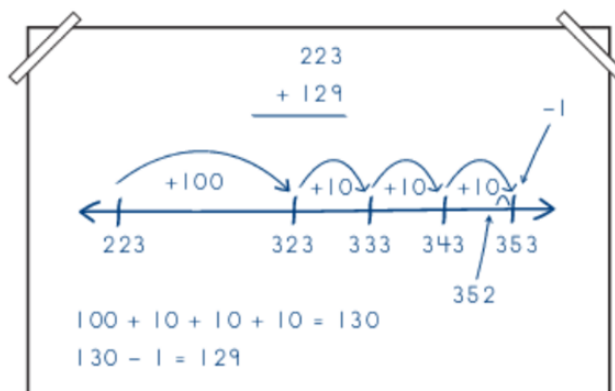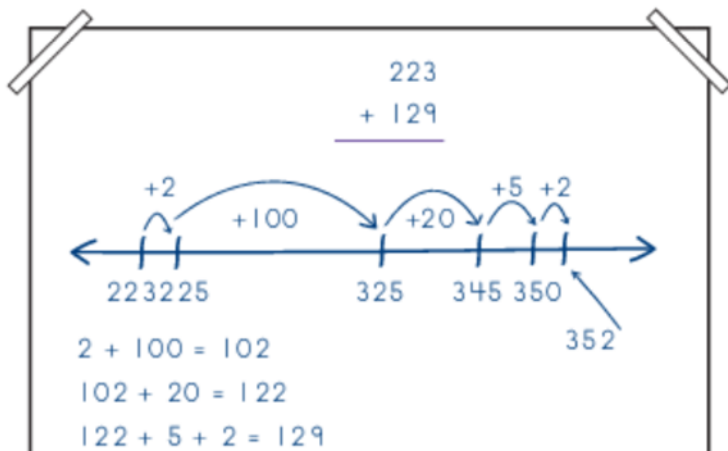
This booklet will show you some of the strategies I have learned to be more successful at solving problems. As I become a stronger mathematician, I learn how and why problems can be solved in different ways. The more I learn and use these different strategies, the more efficient and accurate I will become.
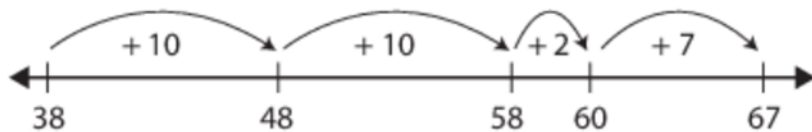
Addition

I can add with 1000 using strategies.

Number Line

$39 + 23 = 62$
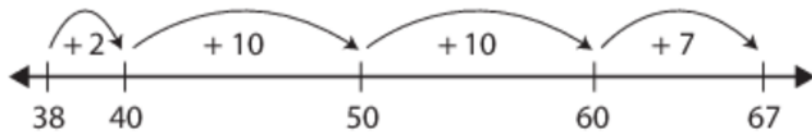

$35 + 25 = 60$
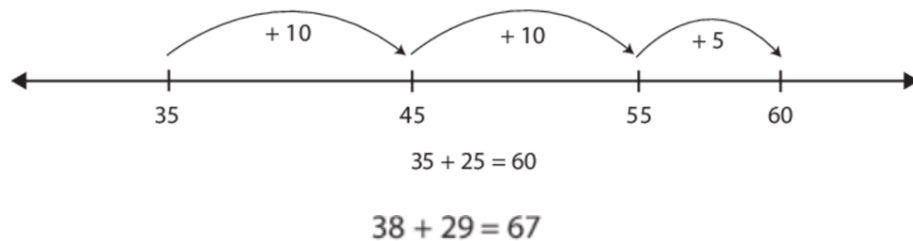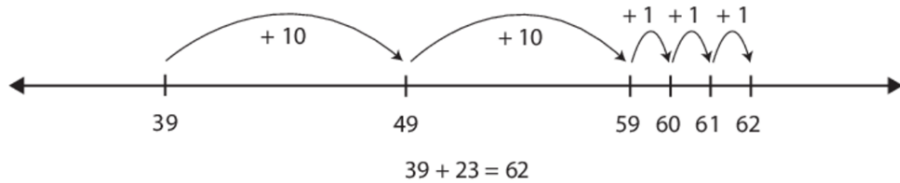
$$38 + 29 = 67$$

Jump by 10

Jump via multiples of 10

End of the Year Expectations

- Count within 1000
- Know all sums of 2 one-digit numbers (up to 9+9)
- Fluently add and subtract within 100 using strategies
- Add and subtract within 1000 using concrete models, place value, and other strategies.

Base Ten Sketch

1. Draw 190
2. Cross out 30 and you get 60 left
3. Trade in a strip for 10 ones and cross out 7
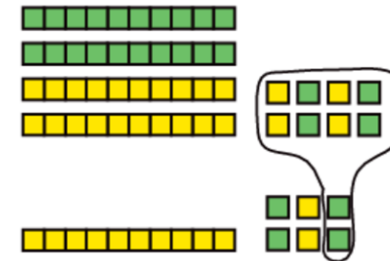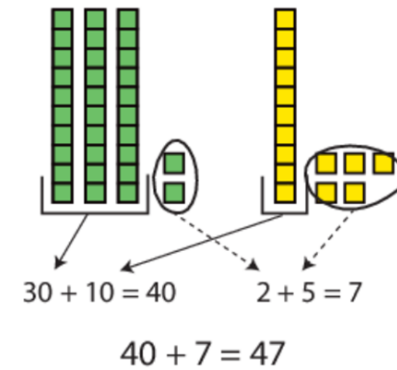

The truck has 153 beach balls.

Partial Difference

$$190$$
$$-37$$
$$190 - 30 = 160$$
$$160 - 7 = 153$$

$$190$$
$$-37$$
$$100 + 60 - 7 = 153$$

Place Value Spitting

I can break numbers apart by place value so that I can add friendly numbers together.
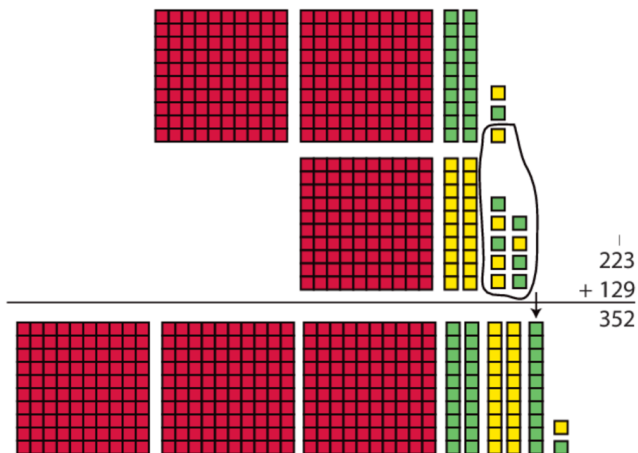
$$32 + 15 = 47$$

$$30 + 10 = 40 \qquad 2 + 5 = 7$$

$$40 + 7 = 47$$

$$148$$
$$+16$$
$$164$$

$$140 + 10 = 150$$
$$8 + 6 = 14 \text{ or}$$
$$1 \text{ ten} + 4 \text{ ones}$$
$$150 + 10 = 160$$
$$160 + 4 = 164$$

$$
\begin{aligned}
148 + 16 &= (140 + 8) + (10 + 6) \\
&= 140 + (8 + 10) + 6 \\
&= 140 + (10 + 8) + 6 \\
&= (140 + 10) + (8 + 6) \\
&= 150 + 14 \\
&= (150 + 10) + 4 \\
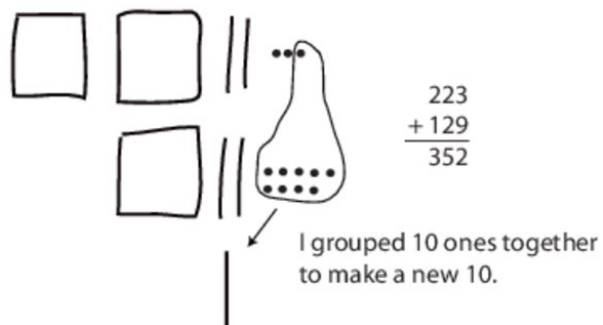&= 160 + 4 \\
&= 164
\end{aligned}
$$

Base Ten Blocks

I can use base ten blocks to add numbers within 1000.

$$223$$
$$+ 129$$
$$352$$

Base Ten Sketch

I can draw base ten pieces to help me add sums within 1000.

$$223$$
$$+ 129$$
$$352$$

I grouped 10 ones together to make a new 10.

Partial Sum

I can use my understanding of place value to add numbers together to get partial sums.

$$223$$
$$+129$$
$$300$$
$$40$$
$$+ 12$$
$$352$$

Subtraction

I can use the same strategies I use in addition to subtract within 1000.

Number Lines

Add to Subtract

$$37 + ? = 190$$
$$37 + 153 = 190$$
$$190 - 37 = 153$$

Count Backwards

$$190 - 37 = 153$$

Base Ten Blocks

$$190 - 30 = 160$$

$$160 - 7 = 153$$

$$153$$