# Subtraction Strategies (page 1 of 4)

In Grade 5, you are using different strategies to solve subtraction problems efficiently.

3,726 <u>- 1,584</u>

### **Subtracting in Parts**

Tamira solved this problem by subtracting 1,584 in parts.

### Tamira's solution

	3,726
-	1,000
	2,726
-	500
	2,226
-	80
	2,146
-	4
	2 142

l started at 3,726 and jumped back 1,584 in four parts: 1,000, then 500, then 80, and then 4. I landed on 2,142. The answer is the place where I landed.

3,726 - 1,584 = **2,142** 





# Subtraction Strategies (page 2 of 4)

3,726 <u>- 1,584</u>

## **Adding Up**

Felix added up from 1,584.

### Felix's solution

		2,142		
3,700	+	26	=	3,726
3,584	+	116	=	3,700
1,584	+	2,000	=	3,584
1,584	+	<del></del>	=	3,726

The answer is the total of all the jumps from 1,584 up to 3,726.



## **Subtracting Back**

Walter used a subtracting back strategy.

### Walter's solution





The answer is the total of the two jumps from 3,726 back to 1,584.



eleven

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## Subtraction Strategies (page 3 of 4)

3,726 <u>- 1,584</u>

## **Changing the Numbers**

Hana solved the problem by changing one number and adjusting the answer.

#### Hana's solution

3,726 - 1,600 = 2,126 2,126 + 16 = **2,142**  I subtracted 1,600 instead of 1,584. I subtracted too much, so I added 16 back on.

3,726





Joshua solved the problem by creating an equivalent problem.

### Joshua's solution

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twelve

3,726 - 1,584 = (+16) (+16) 3,742 - 1,600 = **2,142**  I added 16 to each number. For me, 1,600 is easier to subtract.





# Subtraction Strategies (page 4 of 4)

### 3,726 <u>- 1,584</u>

## Subtracting by Place

Yumiko subtracted by place. She combined positive and negative results to find her answer.

### Yumiko's solution

3,726	This notation s	hows	s each	step	in Yun	nikoʻ	's solutio	on.
<u> </u>	2 0 0 0		700		20		,	
2	3,000	+	/00	+	20	+	0	
- 60	- (1,000	+	500	+	80	+	4)	
200	2,000	+	200	+	-60	+	2 =	2,142
2.000								
2,142								

Avery subtracted by place, using the U.S. algorithm.

Avery's solution	
$3.7^{12}6$	This notation shows each step in Avery's solution.
2,142	
	-(1,000 + 500 + 80 + 4)
	2,000 + 100 + 40 + 2 = <b>2,142</b>



How would you solve the problem 3,726 - 1,584?