

Lesson 21: Zeros in the Standard Algorithm

• Let's subtract from numbers with several zeros.

Warm-up: Which One Doesn't Belong: Numbers with 0, 2, and 5

Which one doesn't belong?

A. 2,050

B. 2,055

C. 205.2

D. 20,005



21.1: What If There is Nothing to Decompose?

Here are some numbers you saw earlier. Each number has at least one 0. From each number, 1,436 is being subtracted.

1. Make sense of the problems and explain to a partner.

	b
1 10 4 10	1 10 4 15
2, \$ \$ \$	2, \$ \$ \$
- 1, 4 3 6	- 1, 4 3 6
6 1 4	6 1 9

2. Use the approach in the first problem to find these two differences:

а						b						
	2,	0	0	5				2	0,	0	0	5
-	 1,	4	3	6	_		_		1,	4	3	6

3. Find the value of each difference. Be prepared to explain your reasoning. If you get stuck, try subtracting using the expanded form.

а						b						
		8,	0	3	0				8,	0	3	3
		2,	6	1	5		_		2,	6	1	5
с						d						
		8,	0	0	3			8	0,	0	0	3
	_		6				_		2,			
		,							,			

а



21.2: What is Your Age?

Jada recorded the birth year of some of her maternal grandparents for a family history project.

family member	birth year				
grandmother	1952				
grandfather	1948				
great-grandmother	1930				
great-grandfather	1926				

As of this year, what is the age of each family member? Show your reasoning. Use the standard algorithm at least once.