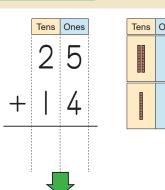
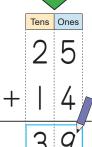
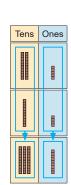
Addition

# **Addition Algorithm** (1)

• Example Calculate 25 + | 4 by using the algorithm.







Line up the numbers vertically in each place.

Calculate each place separately.

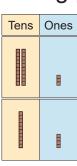
Calculation of the ones place

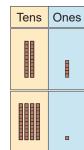
$$5 + 4 = 9$$

Calculation of the tens place

$$2 + 1 = 3$$

$$25 + 14 = 39$$

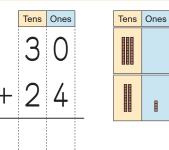




Addition

# **Addition Algorithm** (2)

• Example Calculate 30 + 24 by using the algorithm.



Line up the numbers vertically in each place.

Tens Ones

3 0

Calculate each place separately.

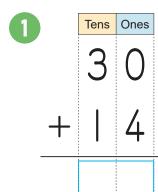
Calculation of the ones place

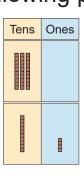
$$0 + 4 = 4$$

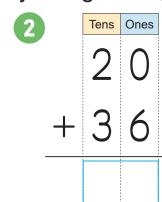
Calculation of the tens place

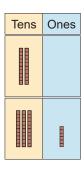
$$3 + 2 = 5$$

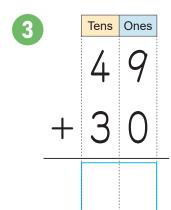
$$30 + 24 = 54$$







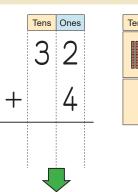




Addition

# **Addition Algorithm** (3)

Calculate 32 + 4 by using the algorithm.



Tens Ones

+

Tens Ones

Line up the numbers vertically in each place.



Calculate each place separately.

Calculation of the ones place

$$2 + 4 = 6$$

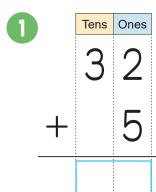
Calculation of the tens place

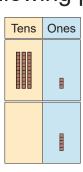
Only 3

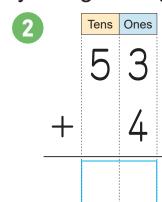
$$32 + 4 = 36$$

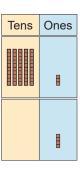
"4" does not have any numbers in the tens place. Remember "4" is the same as "04". Therefore, this addition problem is same as the previous

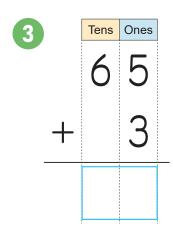
problem.

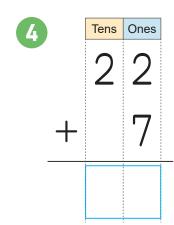


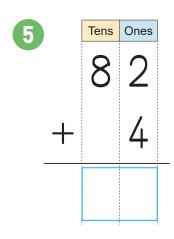












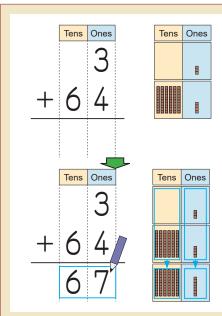
#### Addition

# **Addition Algorithm** (4)

Example Calculate 3 + 64 by using the algorithm.



When we write this addition problem by using the algorithm, which is correct?



Line up the numbers vertically in each place.

Calculate each place separately.

Calculation of the ones place

$$3 + 4 = 7$$

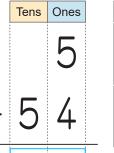
Calculation of the tens place

$$3 + 64 = 67$$

Calculate the following problems by using the algorithm.



Ones





Ones

Tens Ones



Tens

F

		6
+	3	

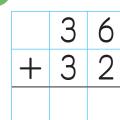
Addition

 $\textbf{Review} \, (\, I\, )$ 

Calculate the following problems by using the algorithm.

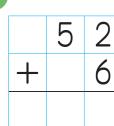
	5	
+	2	3

	3	5
+	5	4

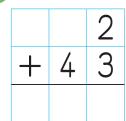


	2	0
+		8

	2	5
+	4	0



8

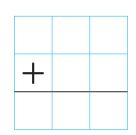


Calculate the following problems by using the algorithm.

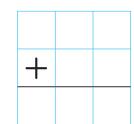
$$34 + 15$$

$$13 + 22$$

+



+

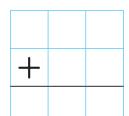


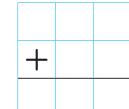
$$48 + 50$$

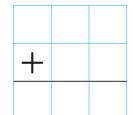
$$6 10 + 34$$

$$63 + 6$$

+



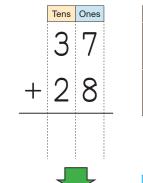


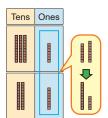


Addition

# **Addition Algorithm** (5)

• Example Calculate 37 + 28 by using the algorithm.





Tens Ones

7 and 8 make 15 (10 and 5).

Line up the numbers vertically in each place.

Calculation of the ones place



$$7 + 8 = 15$$

Regroup | to the tens place.

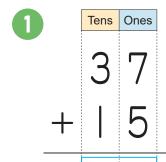
Calculation of the tens place

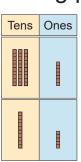
The regrouped | and 3 make 4.

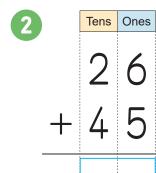
$$4 + 2 = 6$$

$$37 + 28 = 65$$

Calculate the following problems by using the algorithm.







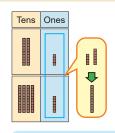
Tens	Ones

#### Addition

# **Addition Algorithm** (6)

# • Example Calculate 24 + 46 by using the algorithm.





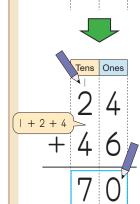
Line up the numbers vertically in each place.

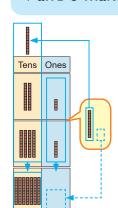
# Calculation of the ones place



$$4 + 6 = 10$$

4 and 6 make 10.





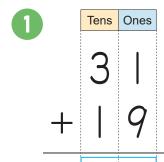
Regroup | to the tens place.

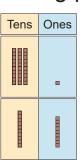
### Calculation of the tens place

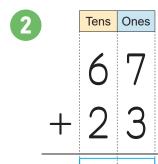
The regrouped | and 2 make 3.

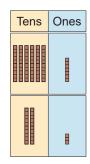
$$3 + 4 = 7$$

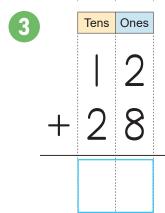
$$24 + 46 = 70$$

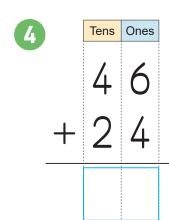












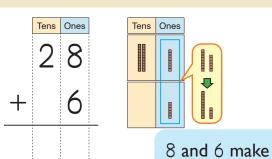
5 Tens Ones 2 5 + 5 5			
5 Tens Ones 2 5	+	- 5	5
Tens Ones		2	5
	5	Tens	Ones

Addition

# **Addition Algorithm** (7)

• Example Calculate 28 + 6 by using the algorithm.

14 (10 and 4).

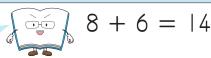


Tens

Ones

Line up the numbers vertically in each place.

Calculation of the ones place



Regroup | to the tens place.

Calculation of the tens place

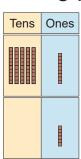
The regrouped | and 2 make 3.

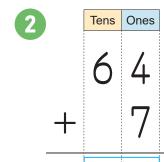
$$28 + 6 = 34$$

Calculate the following problems by using the algorithm.

1

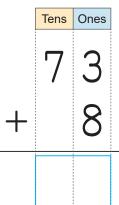




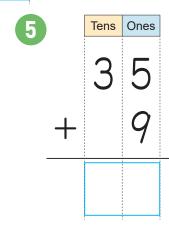


Tens	Ones

3



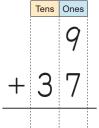
Tens Ones
4 7
+ 6



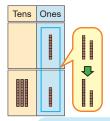
#### Addition

# **Addition Algorithm** (8)

## Example Calculate 9 + 37 by using the algorithm.



Tens Ones



Tens Ones

Line up the numbers vertically in each place.

## Calculation of the ones place



$$9 + 7 = 16$$

9 and 7 make 16 (10 and 6).

Regroup | to the tens place.

### Calculation of the tens place

The regrouped | and 3 make 4.

$$9 + 37 = 46$$

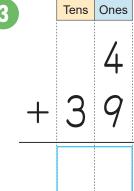
# Calculate the following problems by using the algorithm.





Tens Ones

3



Tens Ones

Ones

Addition

#### **Addition Problems**

There are two second grade classes in my school. One class has 36 students and another class has 35 students. How many second grade students are there altogether?

Math Sentence

Answer 7 | students

+ 3

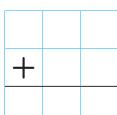
7 1

I have 27 notebooks and my sister has 26 notebooks. How many notebooks are there altogether?

Math Sentence

Answer

notebooks

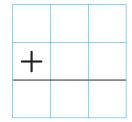


My friend read 23 pages of a book yesterday. He read 37 pages today. How many pages did he read altogether?

Math

Sentence

Answer pages

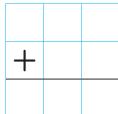


My brother had 6 pencils. He bought 24 more pencils today. How many pencils does he have altogether?

Math Sentence

Answer

pencils



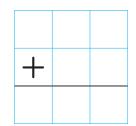
## Addition

### Review (2)

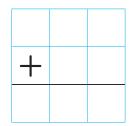
1 Calculate the following problems by using the algorithm.

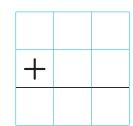
$$1$$
 24 + 17

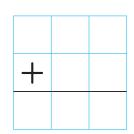
$$\frac{4}{25} + 45$$



$$6 54 + 6$$

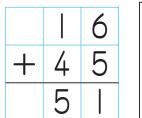


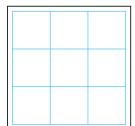




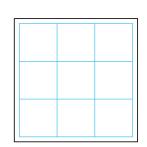
Put an  $\times$  over the mistakes. Write the correct algorithm on the right.

$$\frac{1}{1}$$
  $\frac{38 + 12}{1}$ 



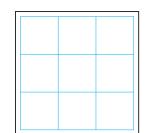


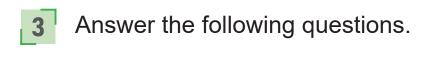
	6	
+	2	7
	8	7



$$\frac{20+4}{}$$

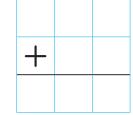
	2	0
+	4	
	6	0





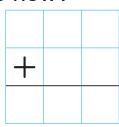
I had 25 pi	eces of candy.	My mother gave me	9 15	pie	ces
of candy. Ho	ow many pieces	s of candy do I have	nov	v?	
Math					
Sentence			1		

Answer pieces of candy



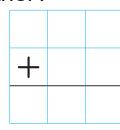
2 36 children were playing in the park. Then 18 children came to the park. How many children are there now?

Math Sentence	
Answer	children



3 I picked 24 flowers in the park. My father picked 37 flowers. How many flowers did we pick altogether?

Math Sentence	
Answer	flowers



Make math sentences that have an answer of 32.

The numbers | to 9 can be used in the \_\_\_\_. You can use the same number repeatedly.

How many math sentences can you make?

