

# Let's Add and Subtract

## Learning Objective:

To be able to use the formal column subtraction method.

What do you **estimate** the difference between these two numbers is?

**178**

**82**

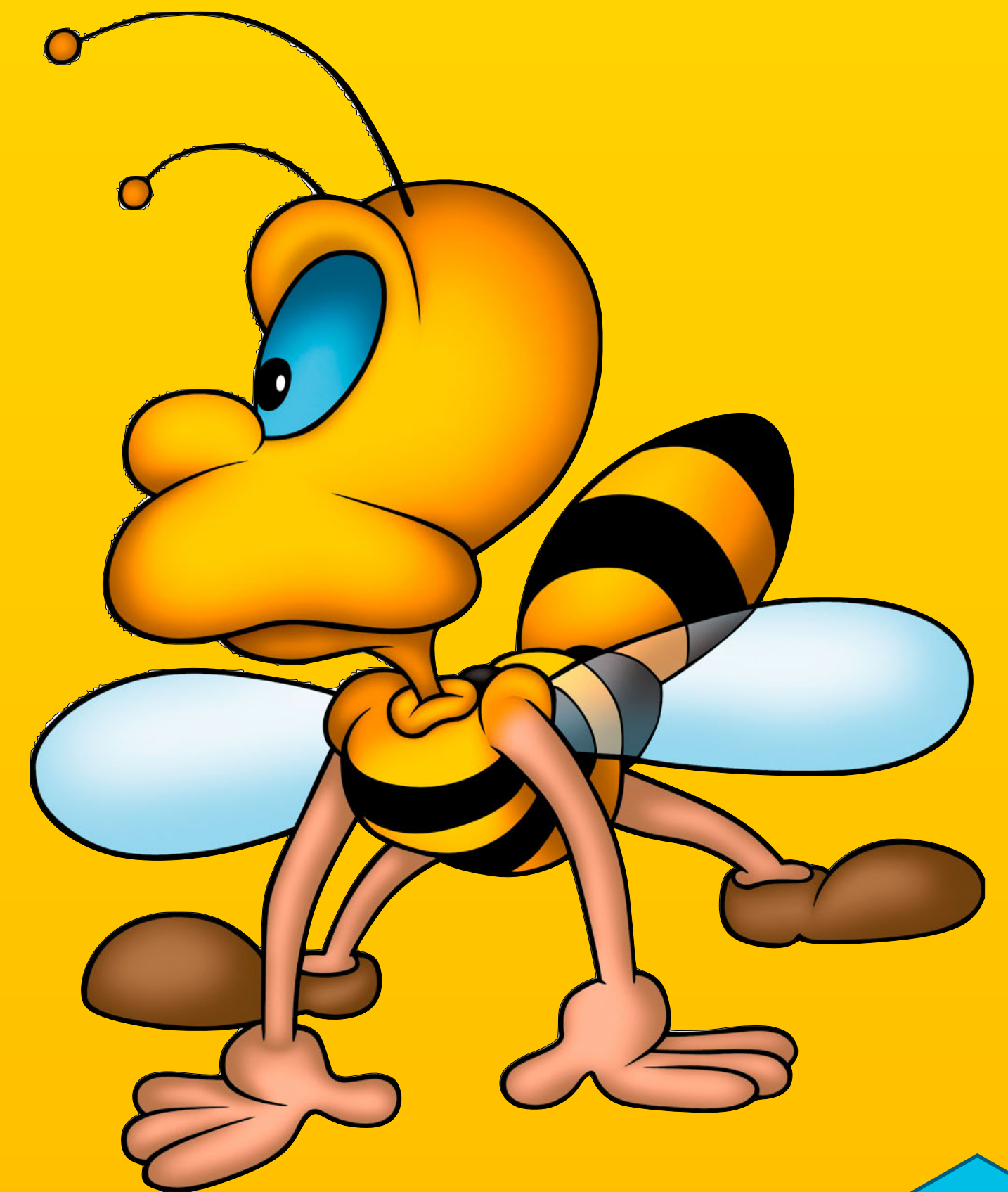


**I think the difference between these numbers is about \_\_\_\_ because..**

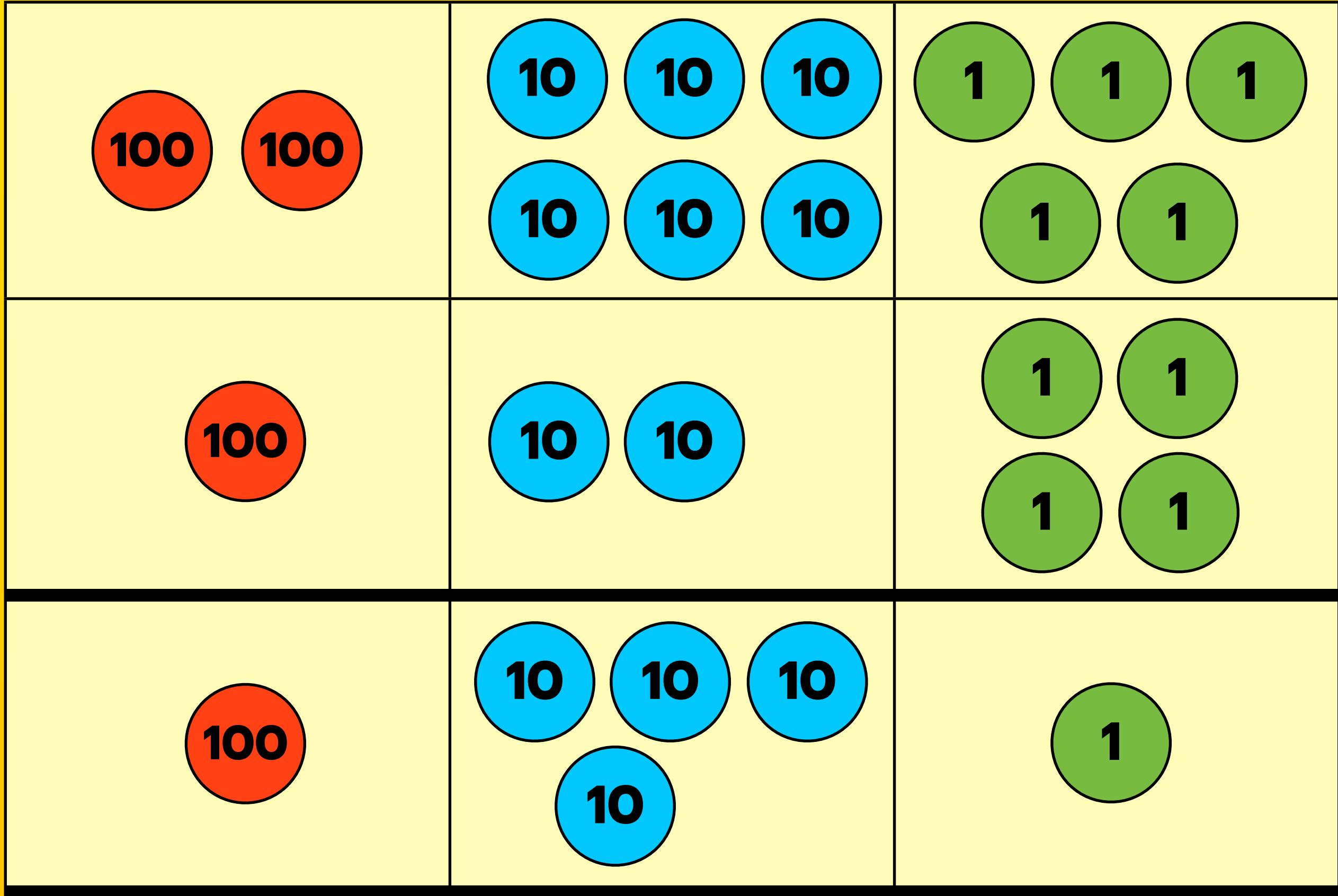
**178**

**82**

**How can we work out  
what the actual difference is to  
check our estimates? What methods  
could we use?**



-

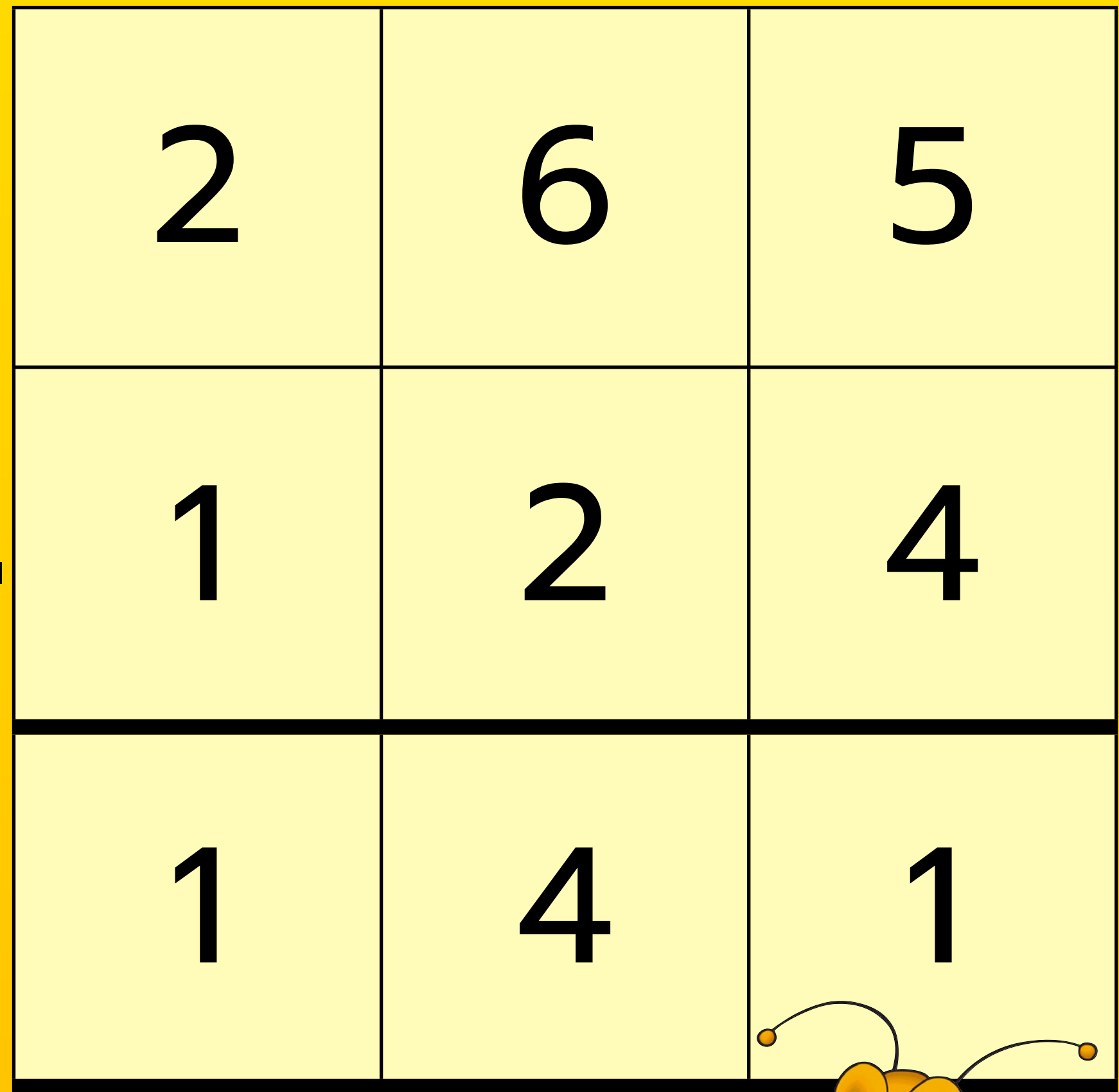
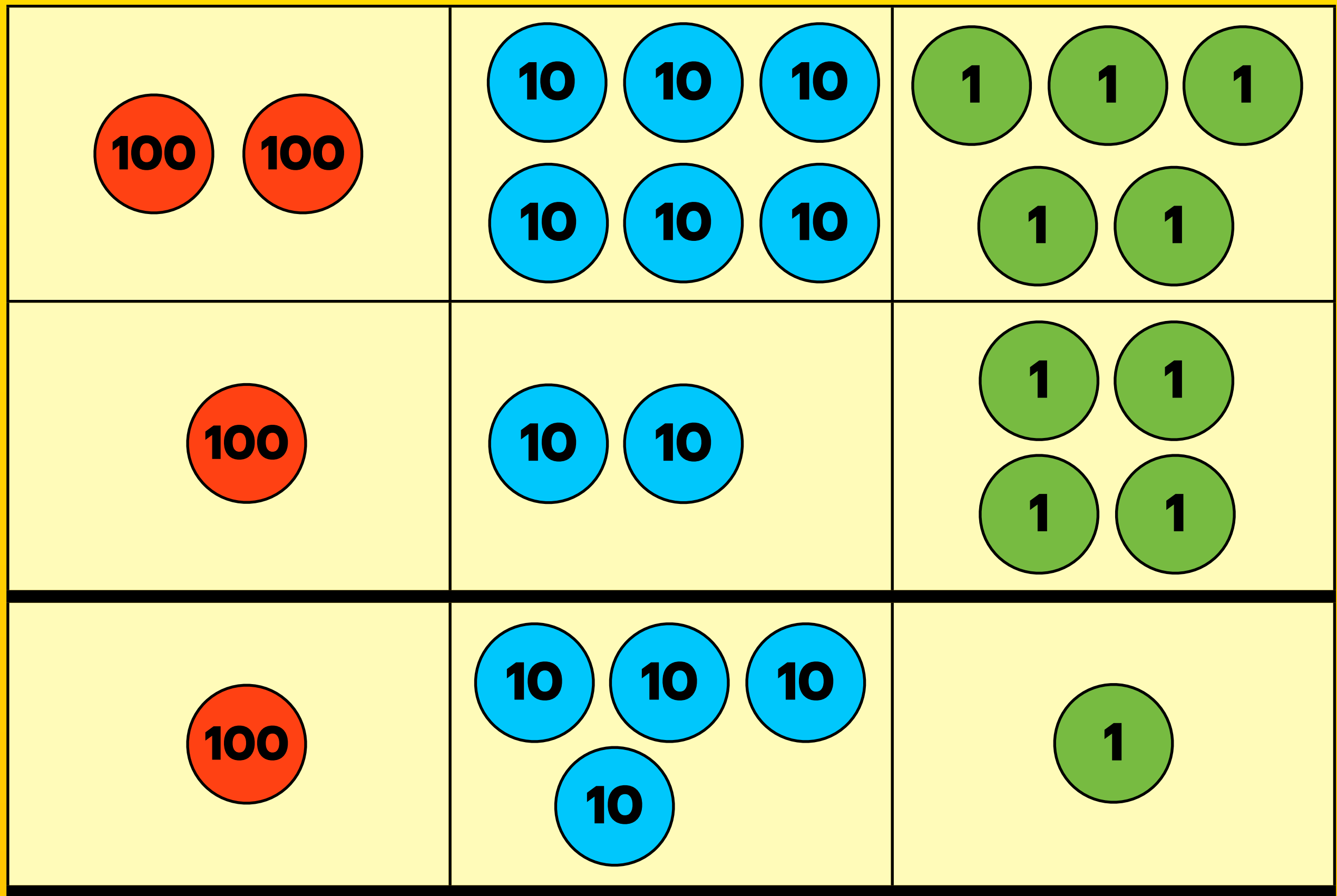


**What subtraction calculation is this showing?**





$$265 - 124 = 141$$

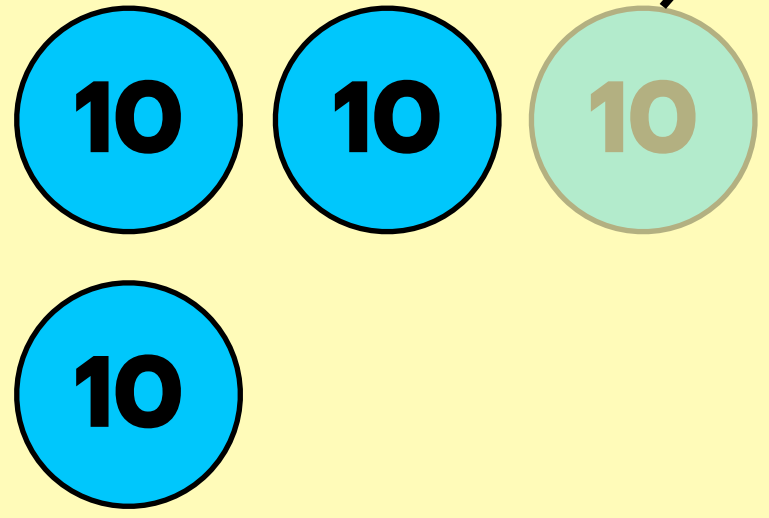
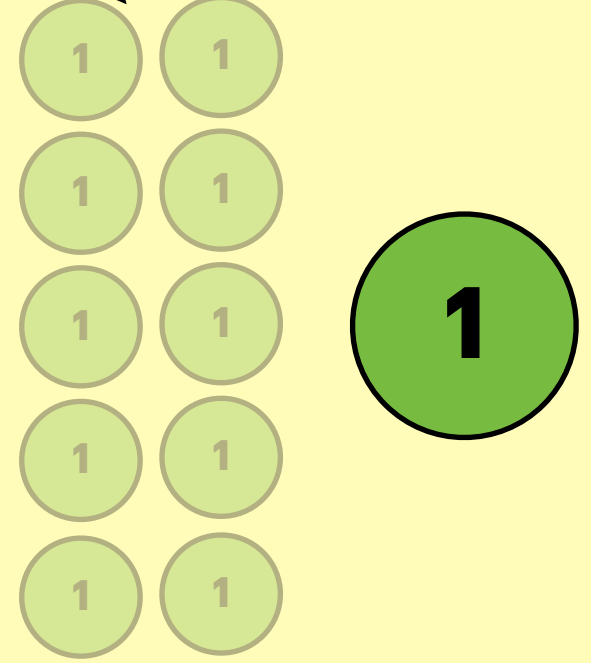
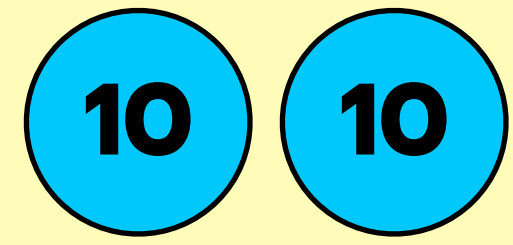
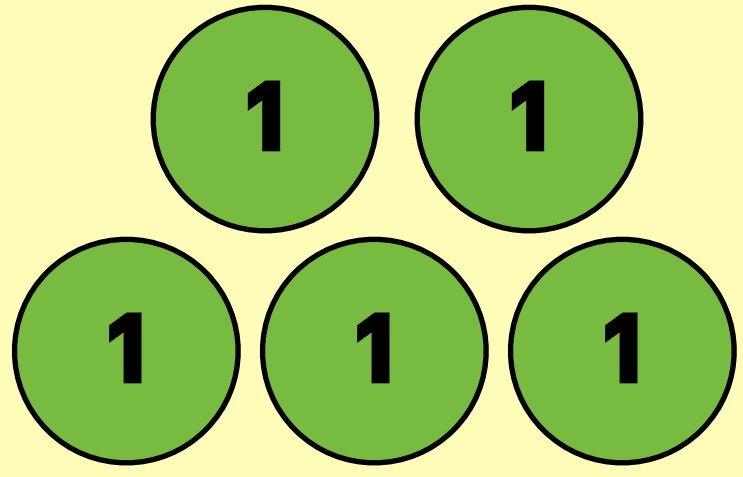
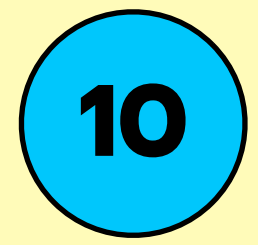
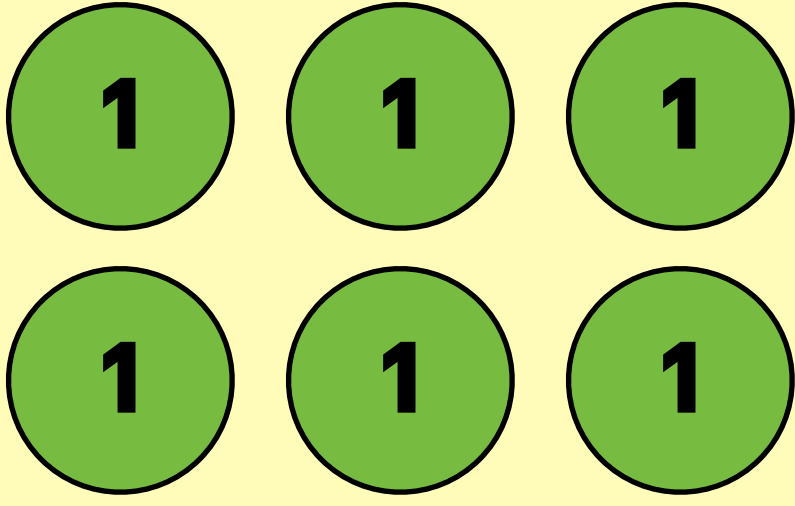


**Did you get that right? How did you know the answer?**

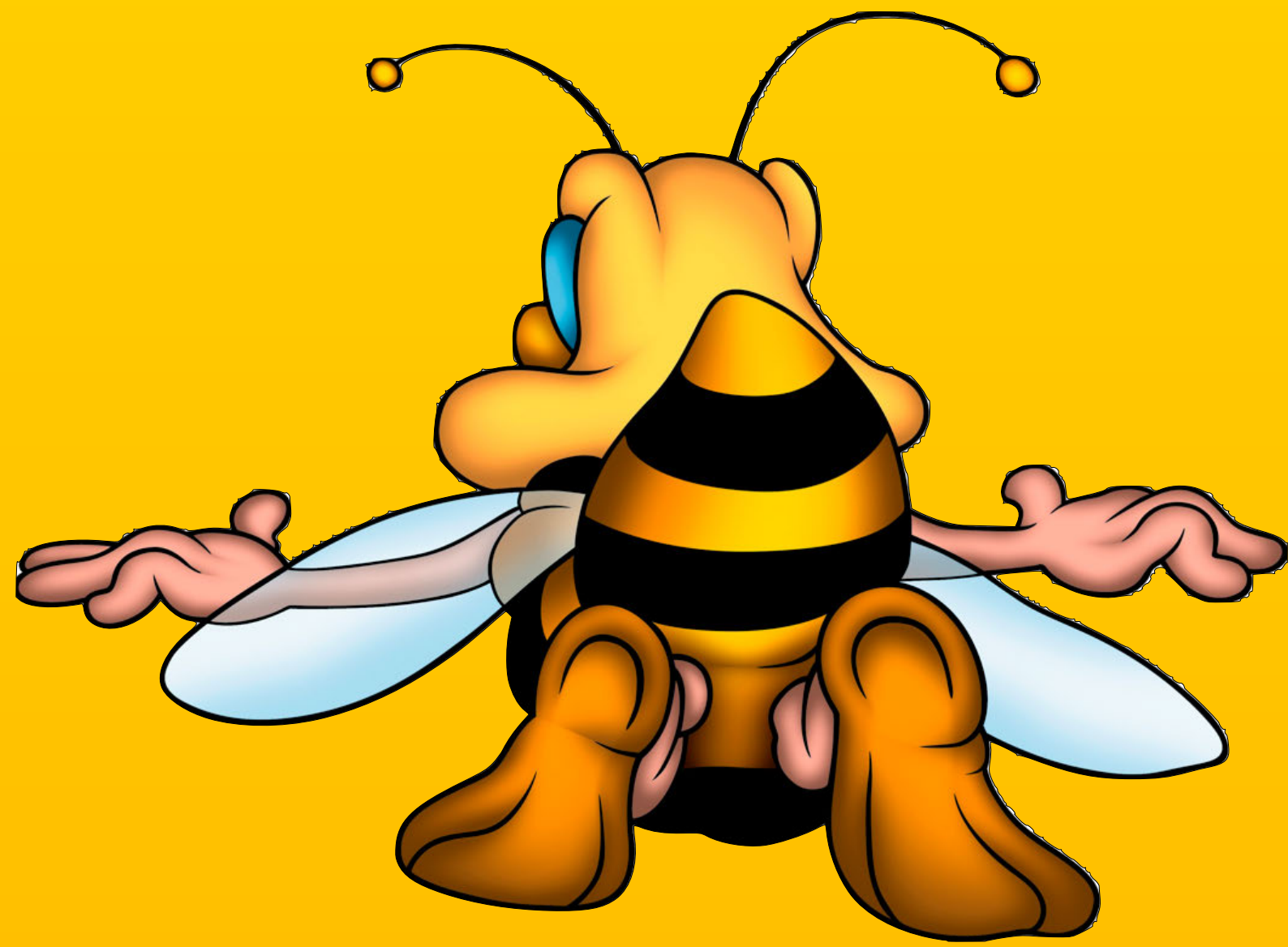


**BACK**

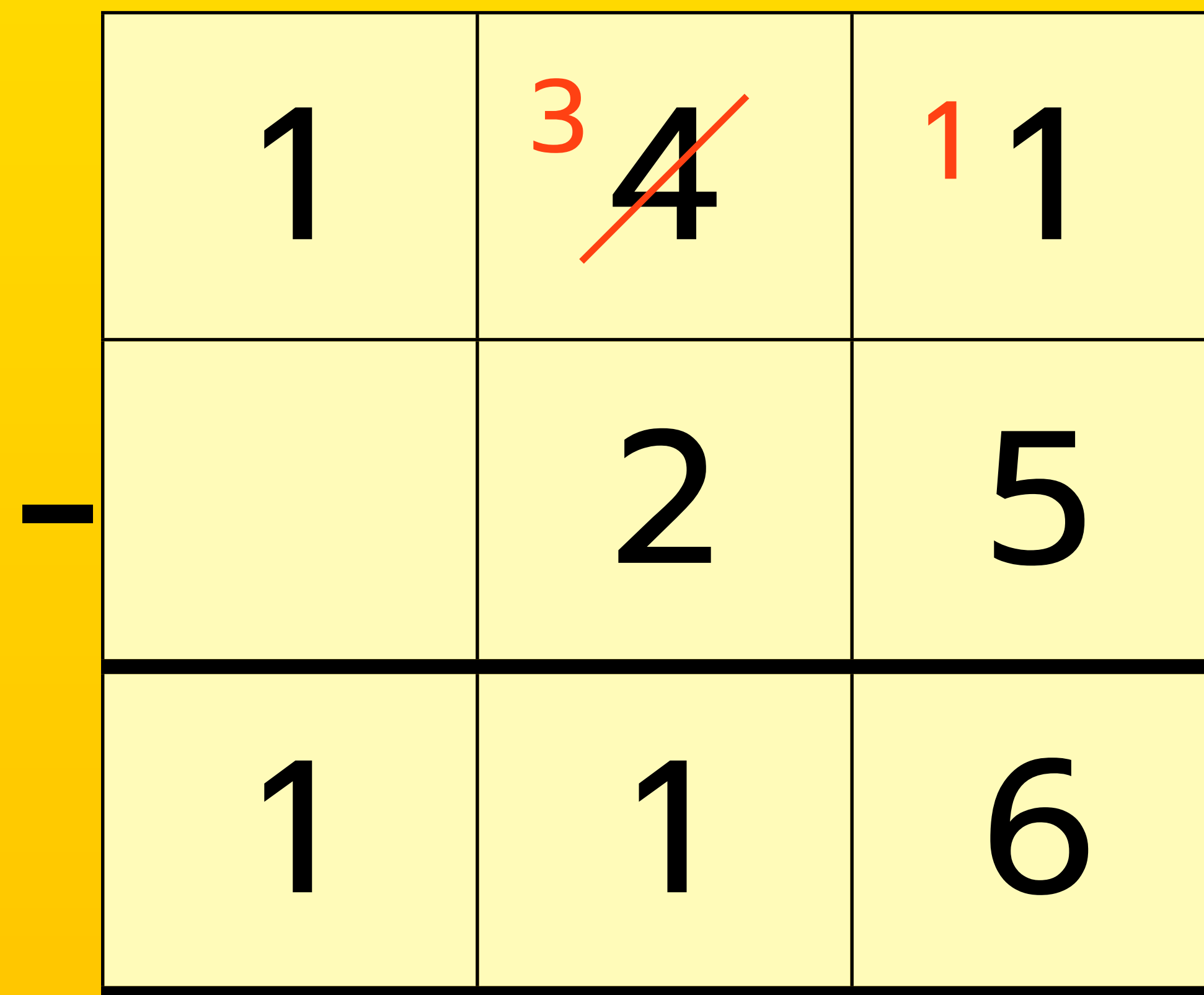
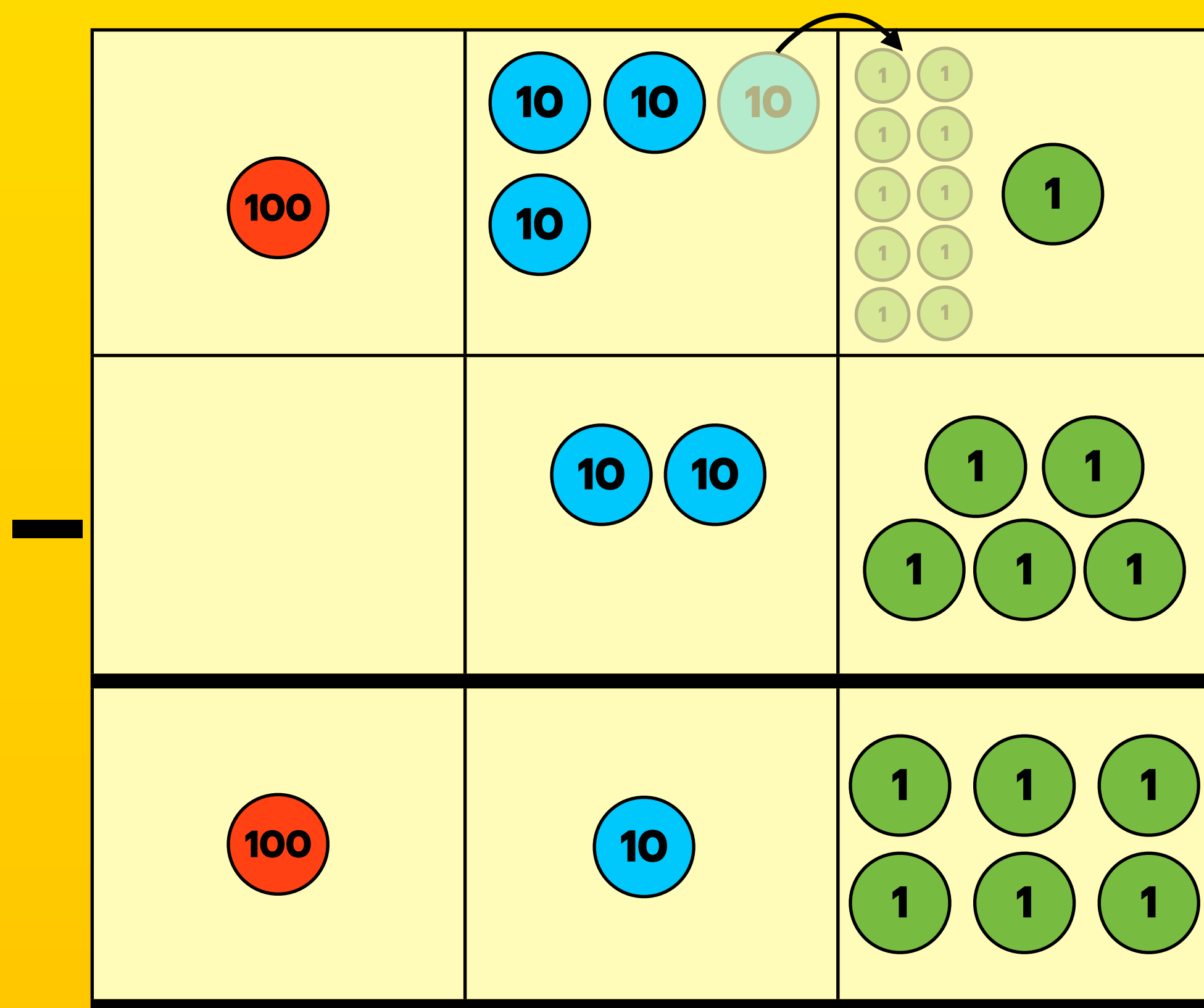
**NEXT**

100		
		
100		

**Oh boy...this looks complicated! Can you explain what it is showing?**



$$141 - 25 = 116$$



This calculation involves **exchanging**. We couldn't take **five ones** away from just **one one**, so we exchanged **one ten** for **ten ones**. We could then take away **five ones** from **eleven ones** to leave six ones.

This method of subtraction is the **formal column method**.

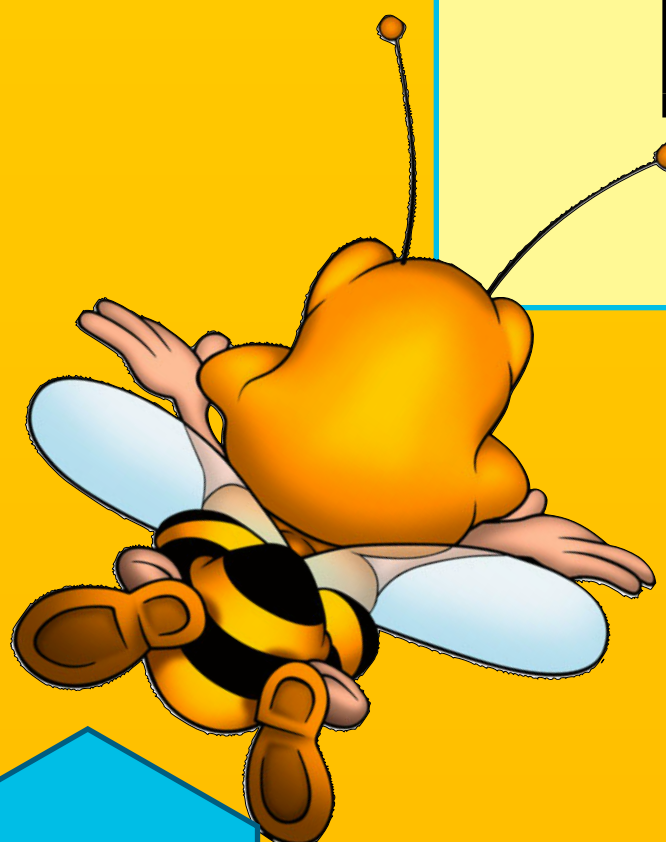
$$93 - 46 = 47$$

	<del>8</del> 9	13
-	4	6
	4	7

$$93 - 46 = 53$$

	9	3
-	4	6
	5	3

Can you tell me which of these calculations is right and which is wrong? How do you know?







**Big bee points if you got that right!**

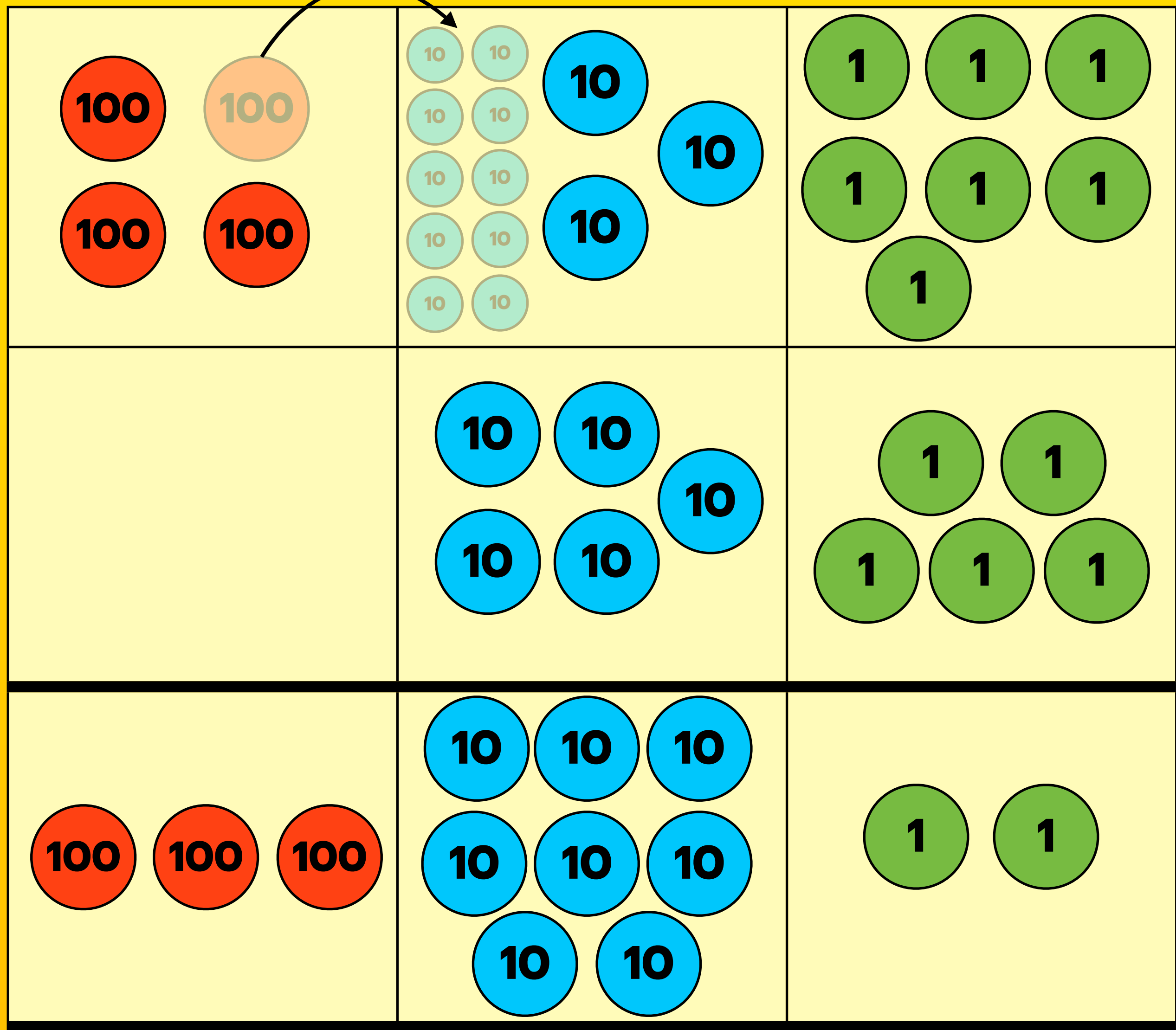
$$93 - 46 = 47$$

<del>8</del> 9	13
4	6
<hr/>	
4	7

$$93 - 46 = 53$$

9	3
4	6
<hr/>	
5	3

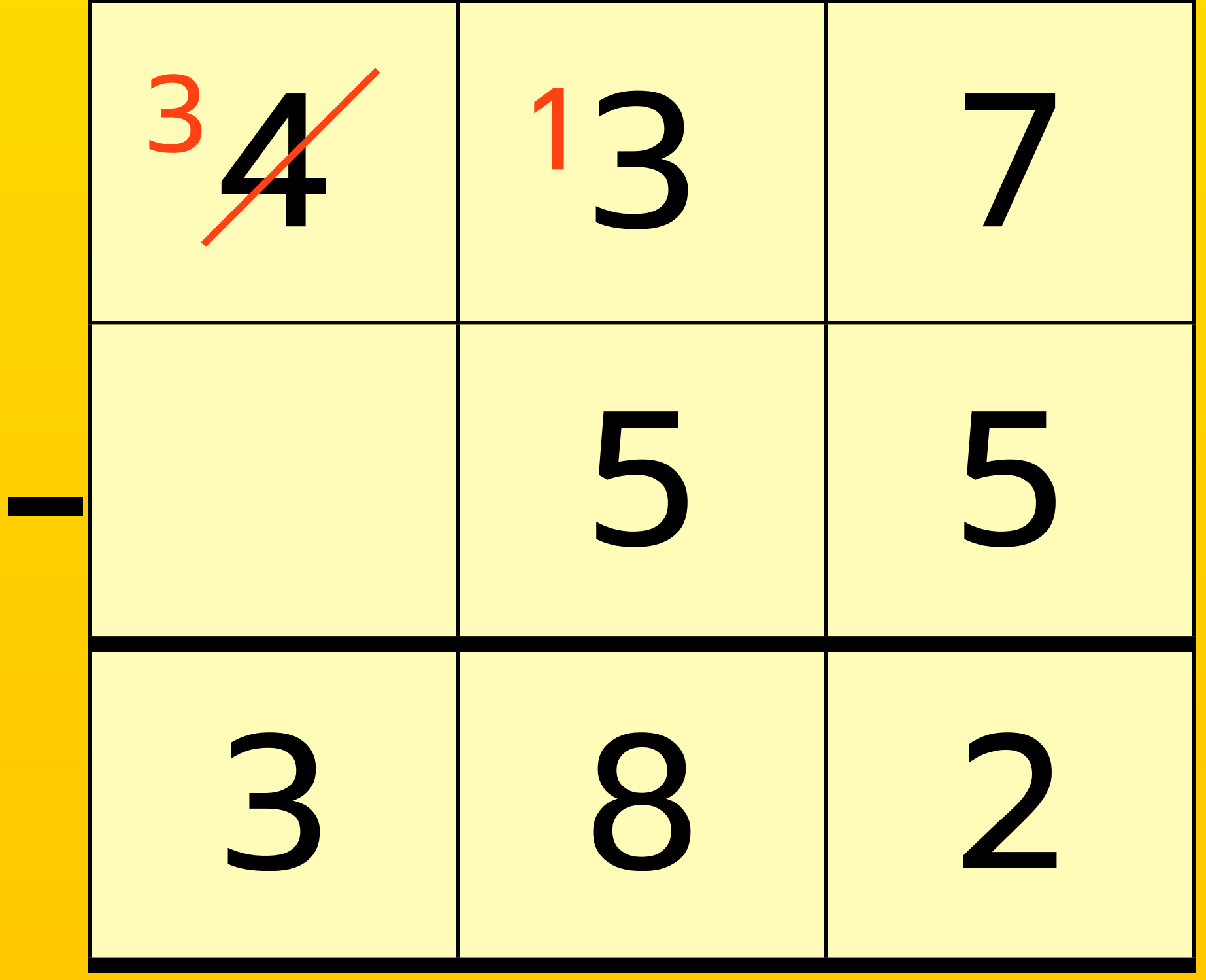
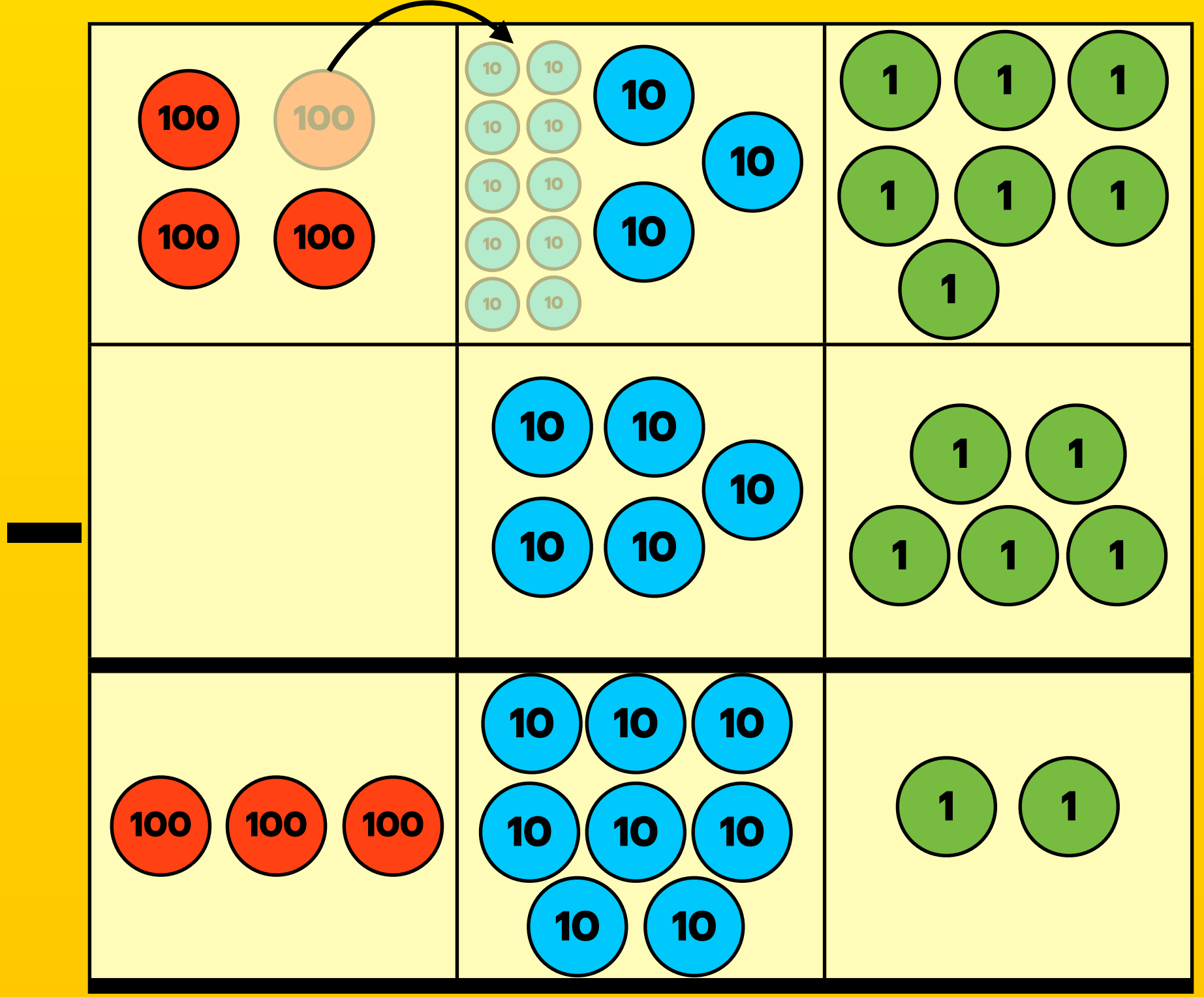
**What mistake was made in the wrong calculation?**



**Hmm...what's going on in this calculation? What has been exchanged and why?**



$$437 - 55 = 382$$



In this calculation, you couldn't take away **five tens** from **three tens**, so we **exchanged** one of the hundreds for **ten tens**. We could then take away **five tens** from **thirteen tens**.



$246 - 121 =$

	2	4	6
-	1	2	1
<hr/>			
<hr/>			

$315 - 108 =$

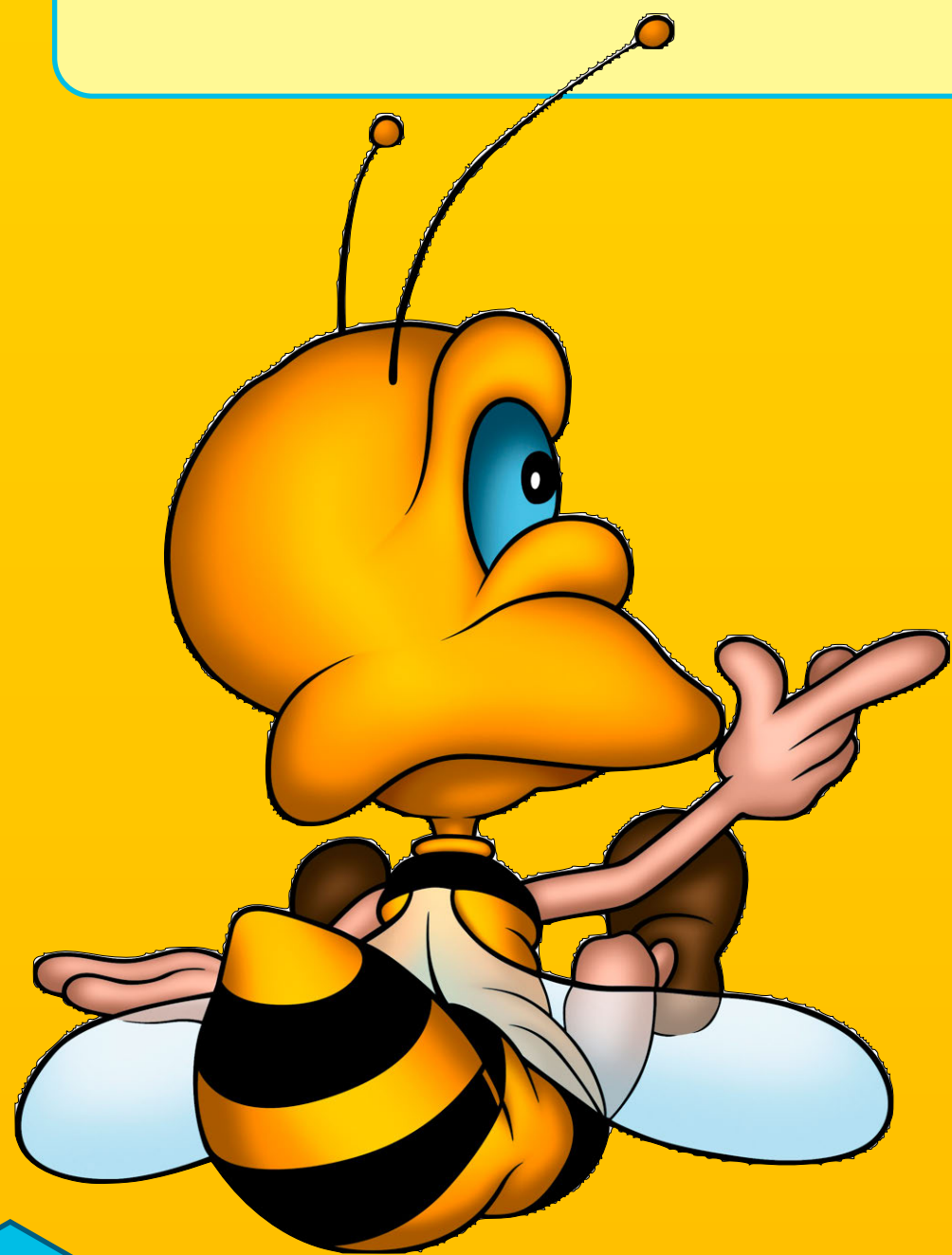
	3	1	5
-	1	0	8
<hr/>			
<hr/>			

$526 - 342 =$

	5	2	6
-	3	4	2
<hr/>			
<hr/>			

$853 - 241 =$

	8	5	3
-	2	4	1
<hr/>			
<hr/>			



**Have a look at these calculations. Just from looking at them, can you see which will involve exchanging and which won't?**



$$246 - 121 = 125$$

	2	4	6
-	1	2	1
<hr/>			
	1	2	5

$$315 - 108 = 207$$

	3	<del>0</del> 1	5
-	1	0	8
<hr/>			
	2	0	7

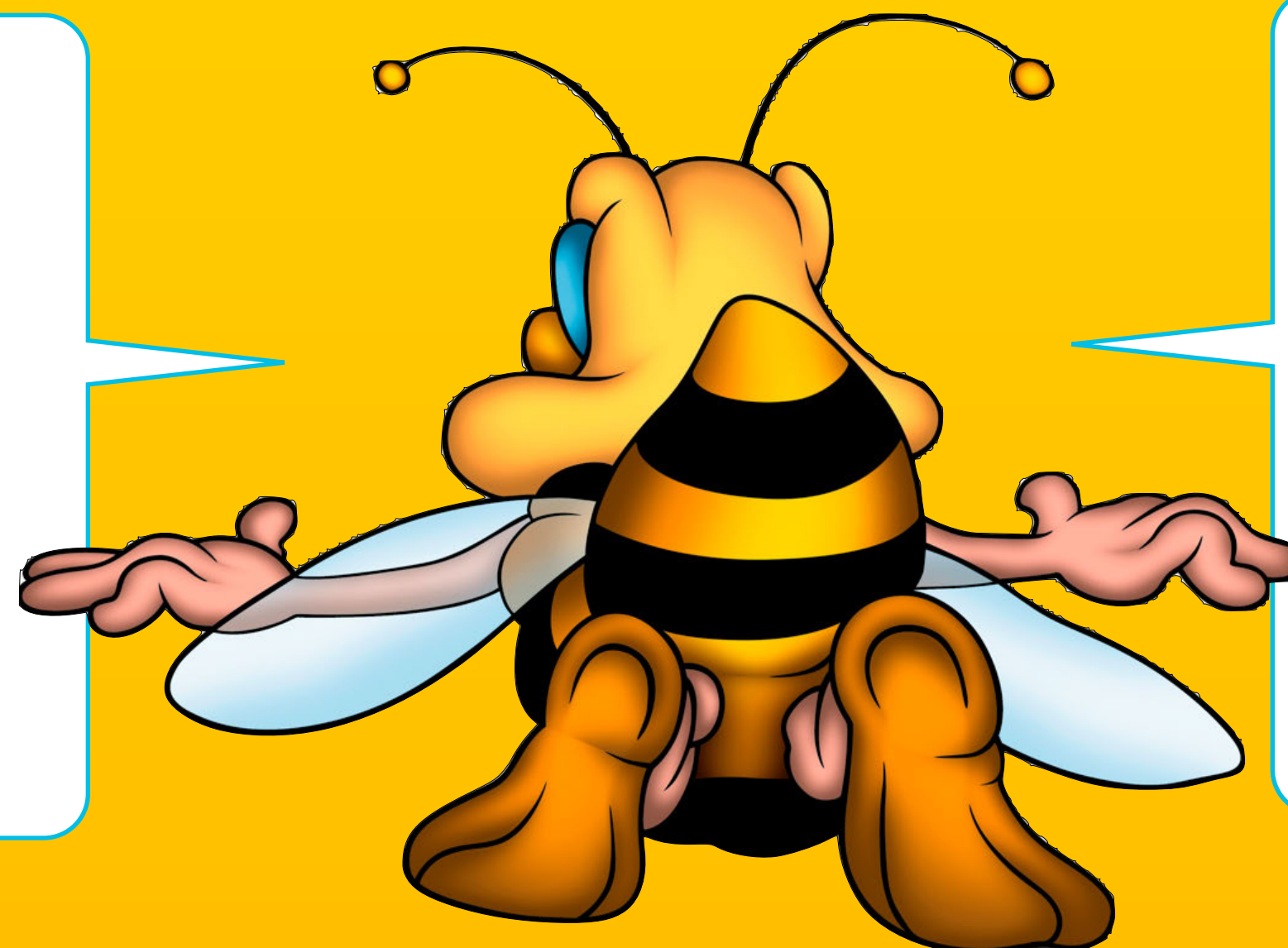
$$526 - 342 = 184$$

	<del>4</del> 5	2	6
-	3	4	2
<hr/>			
	1	8	4

$$853 - 241 = 612$$

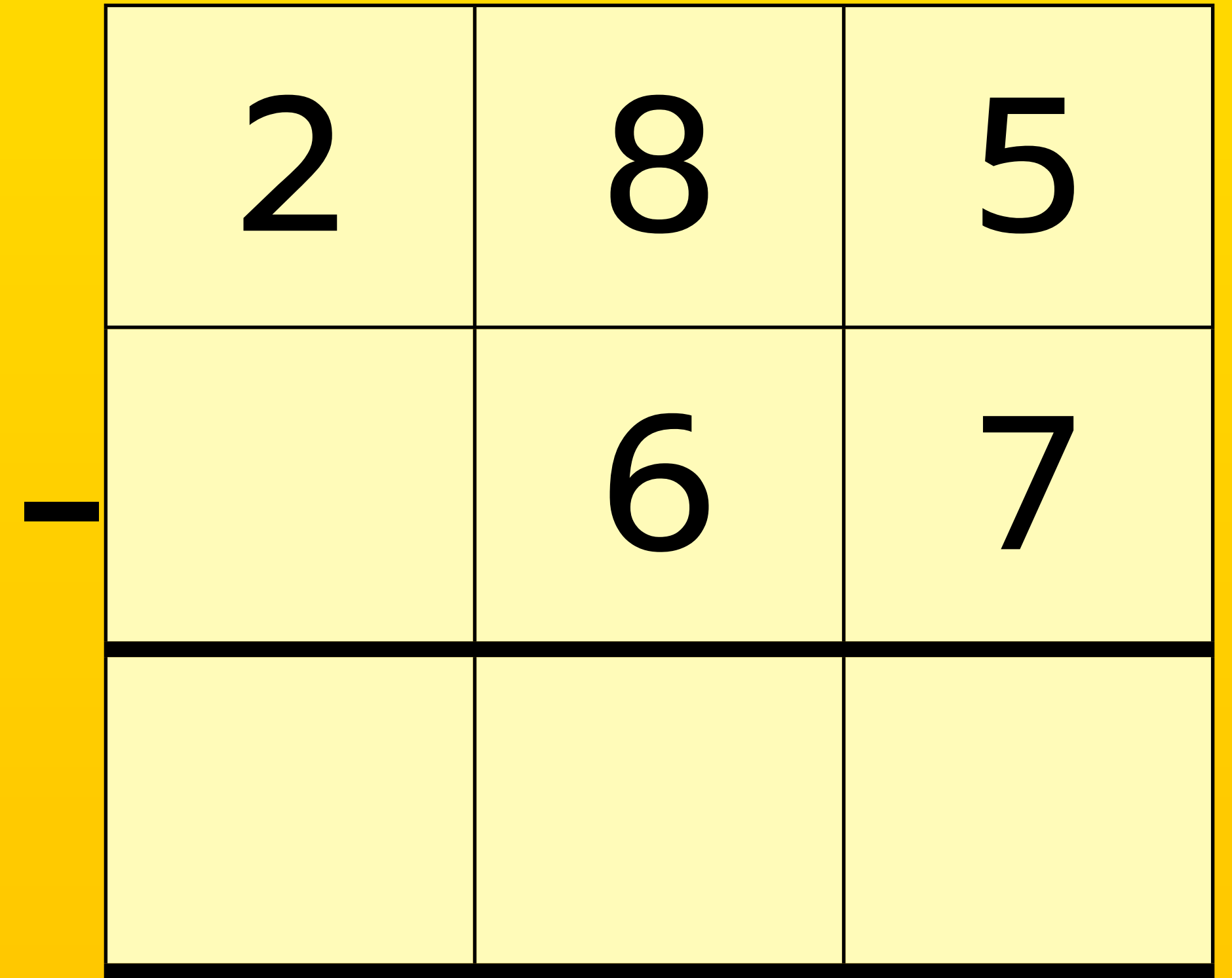
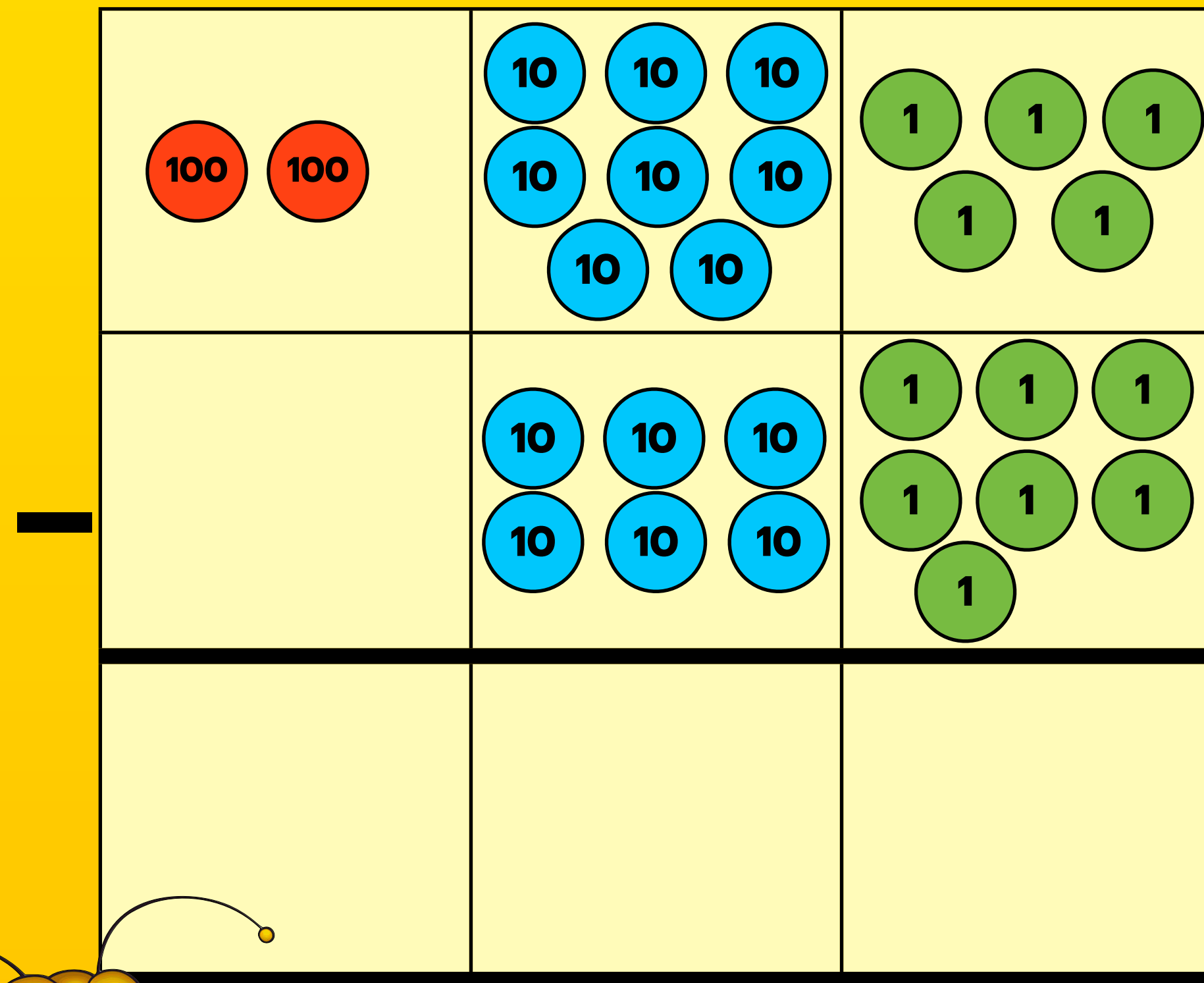
	8	5	3
-	2	4	1
<hr/>			
	6	1	2

**The two middle calculations needed exchanging! Did you get that right?**



**How can you tell if a calculation will need to include exchanging or not?**

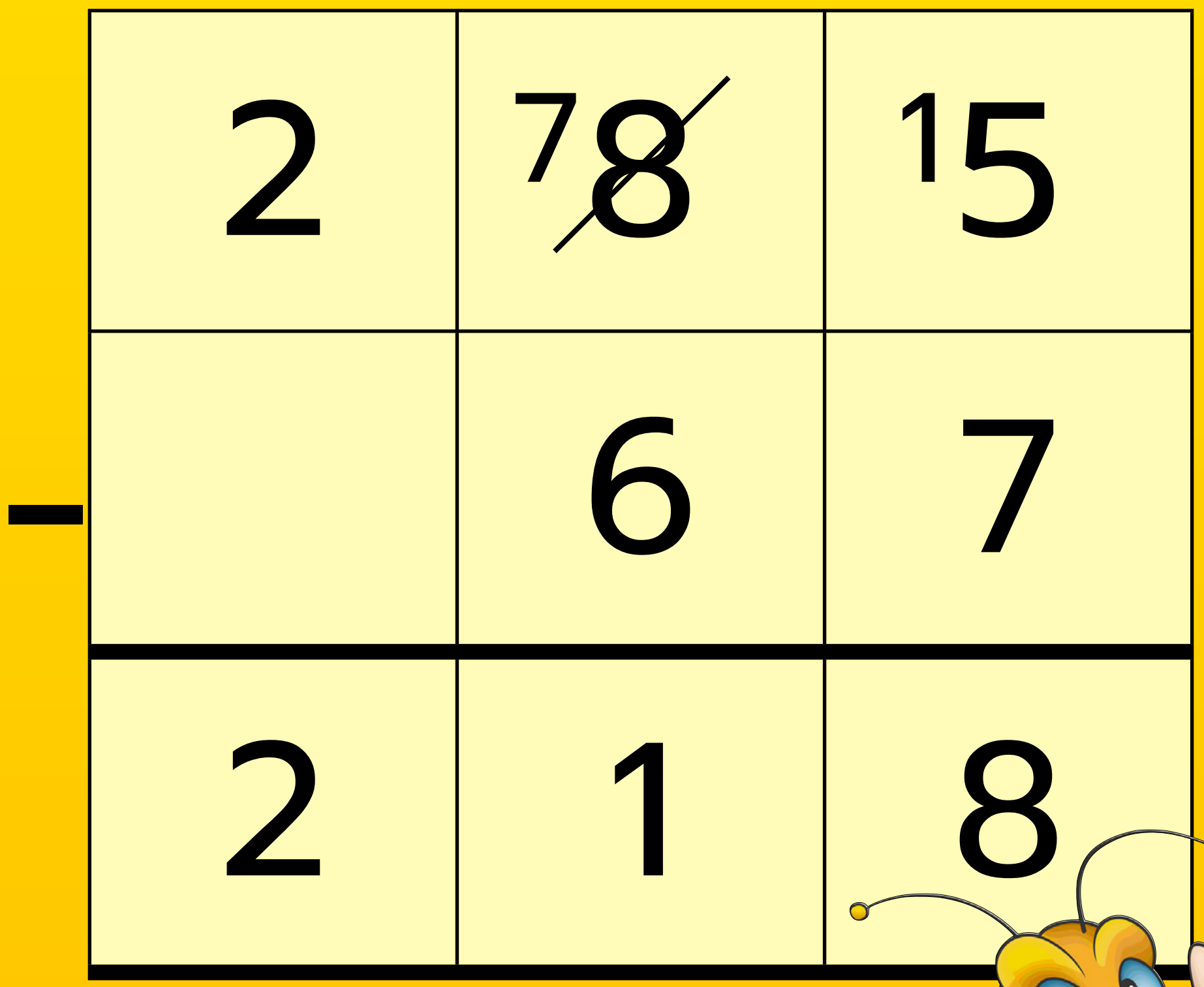
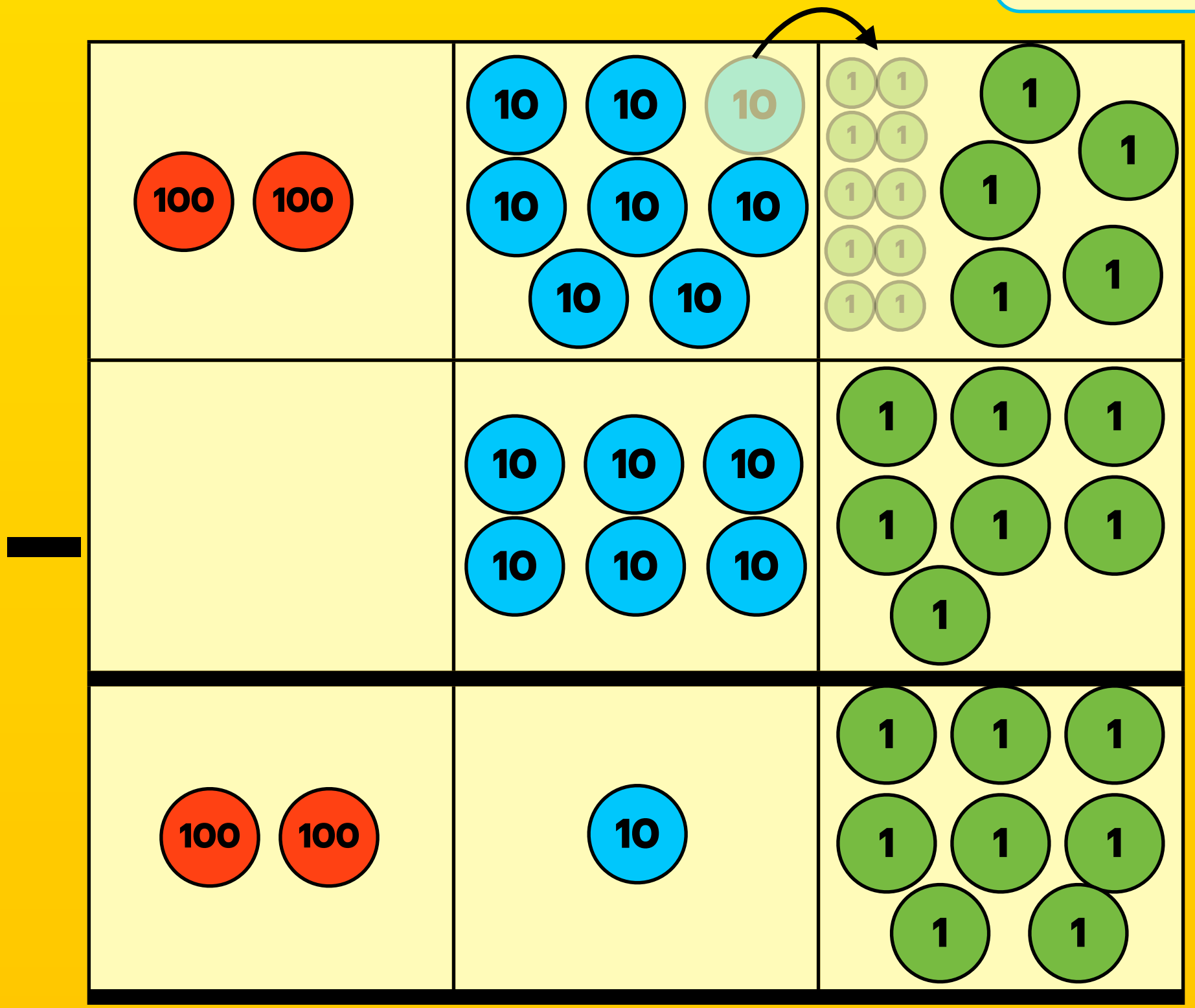
$$285 - 67 = ?$$



**Can you solve this calculation using the formal column method? Make sure you check your answer!**



$$285 - 67 = 218$$

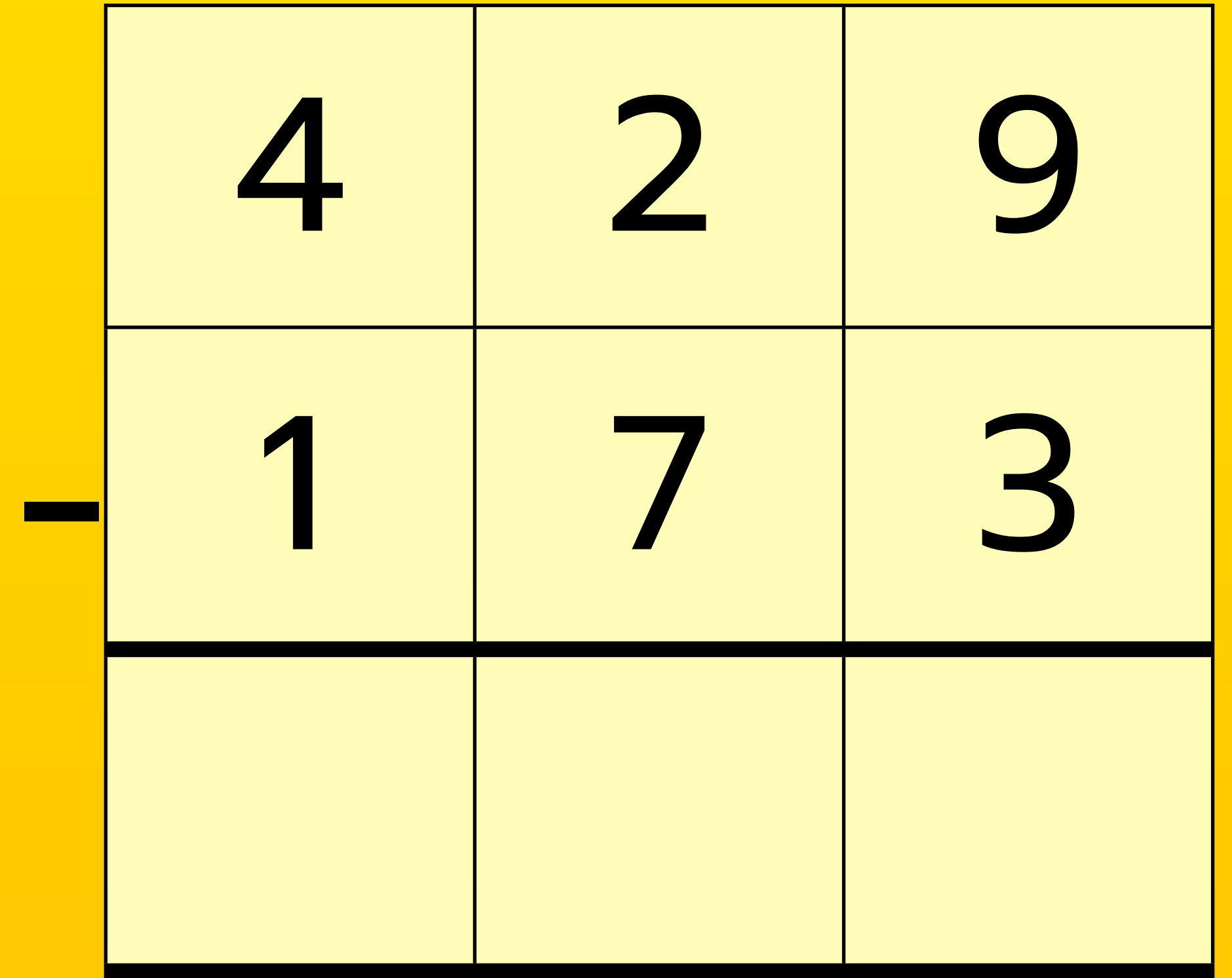
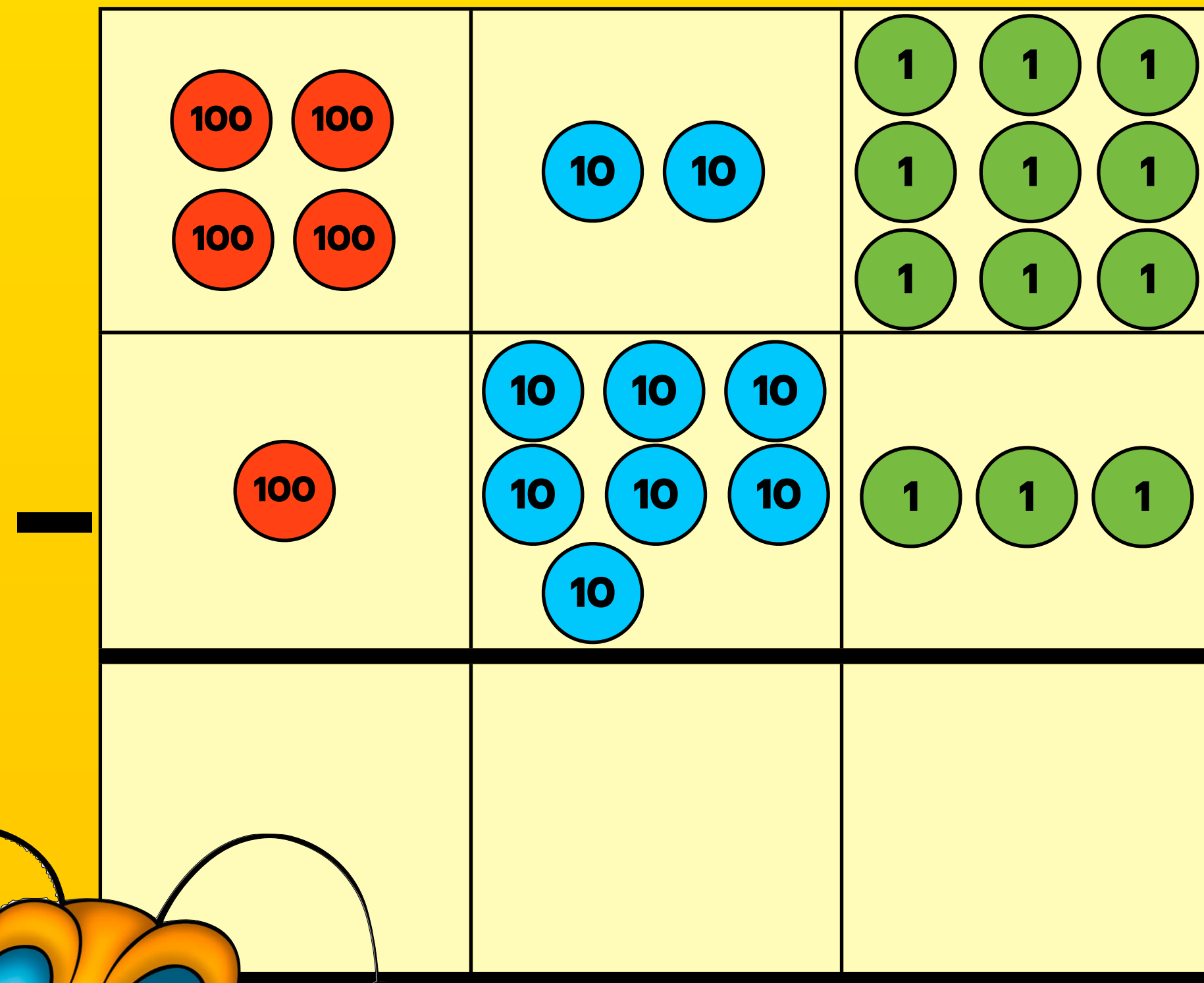


**Well done if you got that right! Can you explain the process you went through?**





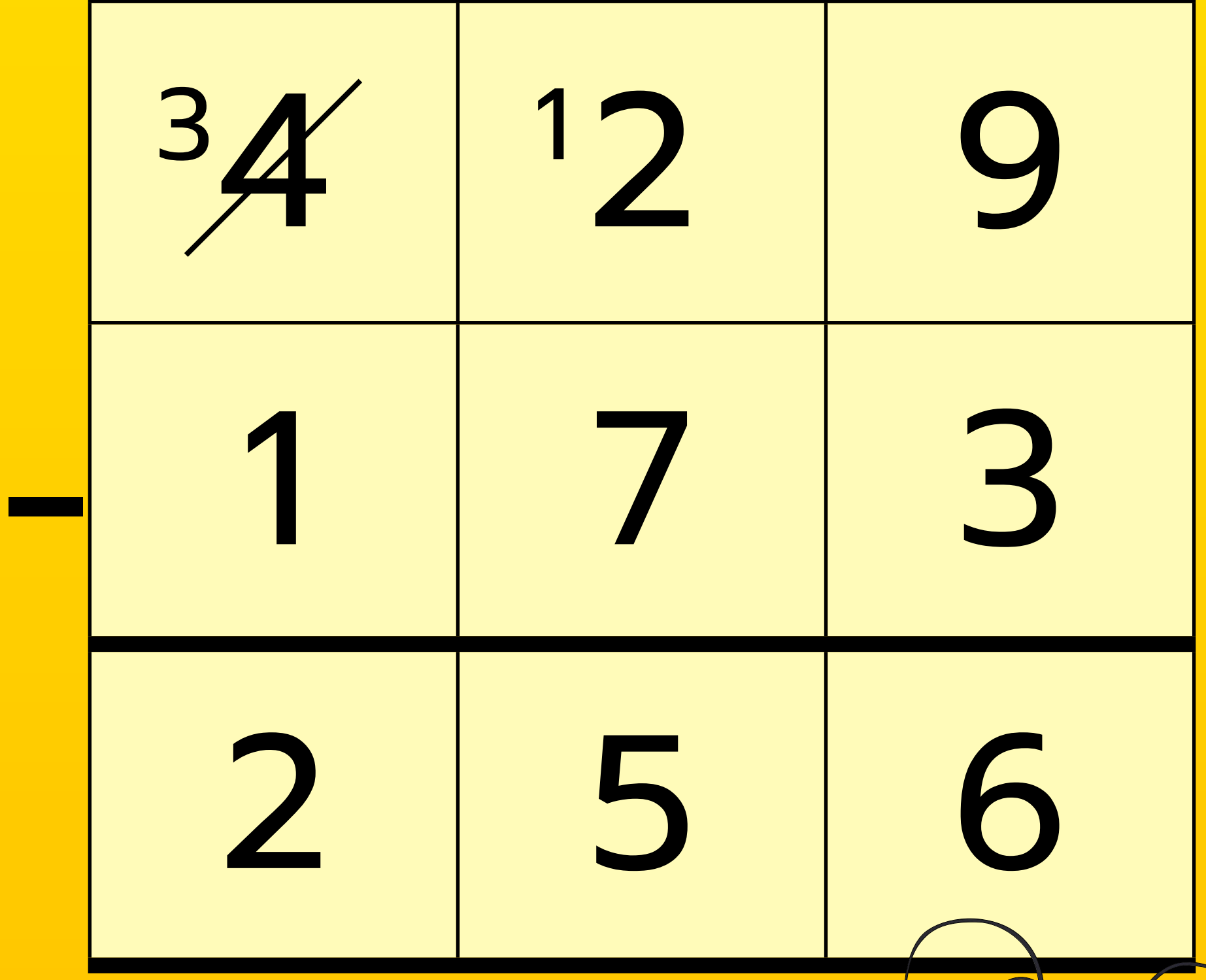
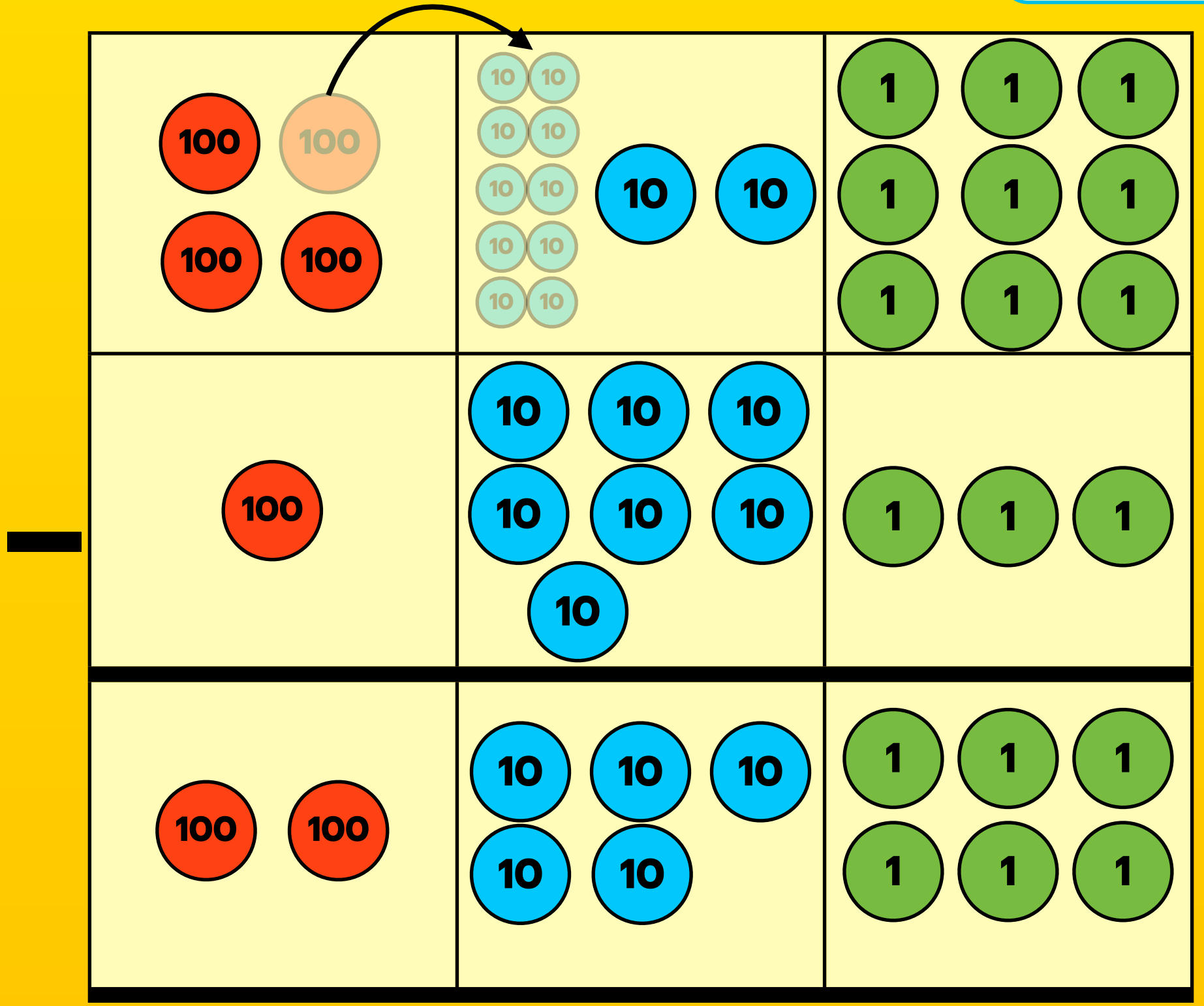
$$429 - 173 = ?$$



**Have a go at this calculation! Do you think you will need to do any exchanging?**



$$429 - 173 = 256$$



**Did you get that one right? If not, can you see where you went wrong?**



## Tricky

$$71 - 58 = ?$$

	7	1
-	5	8
<hr/>		

## Trickier

$$338 - 165 = ?$$

	3	3	8
-	1	6	5
<hr/>			

## Trickiest

$$512 - 157 = ?$$

	5	1	2
-	1	5	7
<hr/>			

**Choose one of these calculations to solve using the formal written method.**



## Tricky

$$71 - 58 = 13$$

	<sup>6</sup> <del>7</del>	<sup>1</sup> 1
-	5	8
<hr/>		
	1	3

## Trickier

$$338 - 165 = 173$$

	<sup>2</sup> <del>3</del>	<sup>1</sup> 3	8
-	1	6	5
<hr/>			
	1	7	3

## Trickiest

$$512 - 157 = 355$$

	<sup>4</sup> <del>5</del>	<sup>10</sup> <del>1</del>	<sup>1</sup> 2
-	1	5	7
<hr/>			
	3	5	5

**Wow, they were really hard! Did you get your calculation right? If not, can you see where you went wrong?**





**I'm exhausted! That was hard work!**

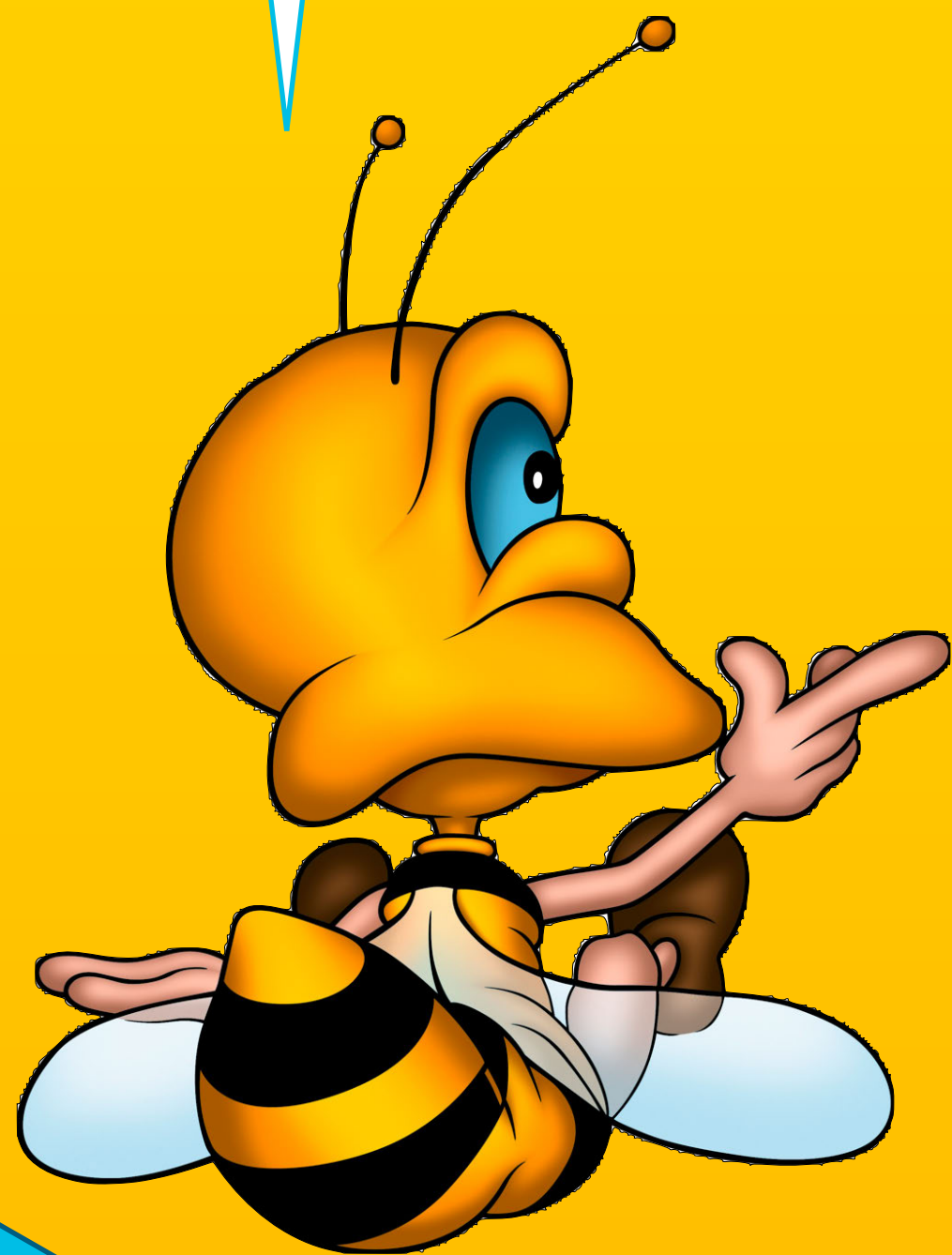
**I think I'll leave you to do some work on your own now. Are you ready?**





# Plenary:

**Can you work out what the missing numbers are?**



**Check to see if your answer works!**

3	<del>7</del> 8	<sup>1</sup> 2
<input type="text"/>	<input type="text"/>	<input type="text"/>
2	4	3

	3	<sup>7</sup> <del>8</del>	<sup>1</sup> 2
-	1	3	9
	2	4	3

**Did you get that right? Can you explain how you worked it out?**

