

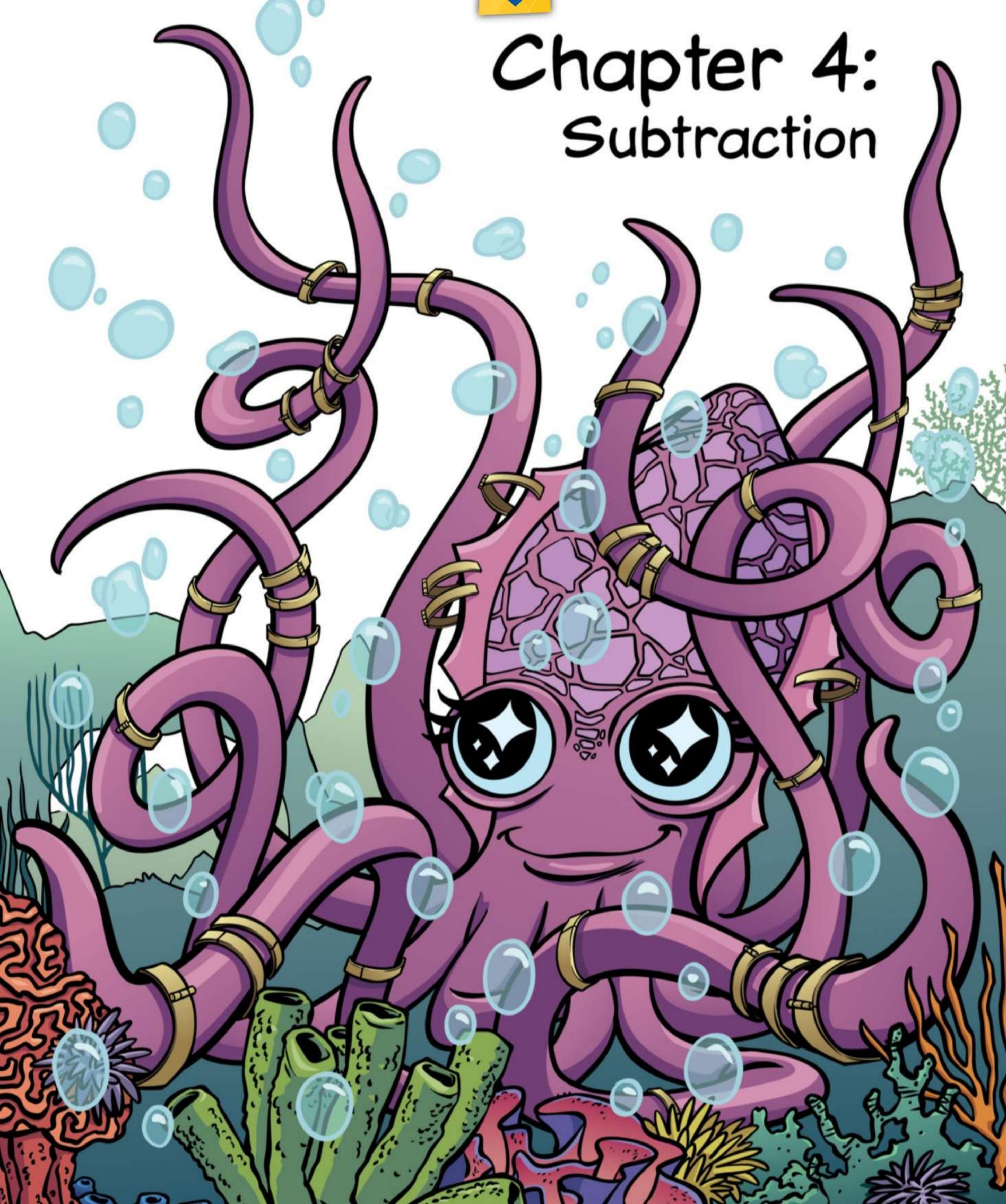
Contents: Chapter 4

Click the Play List tab in the top-left to view a recommended reading/practice sequence.

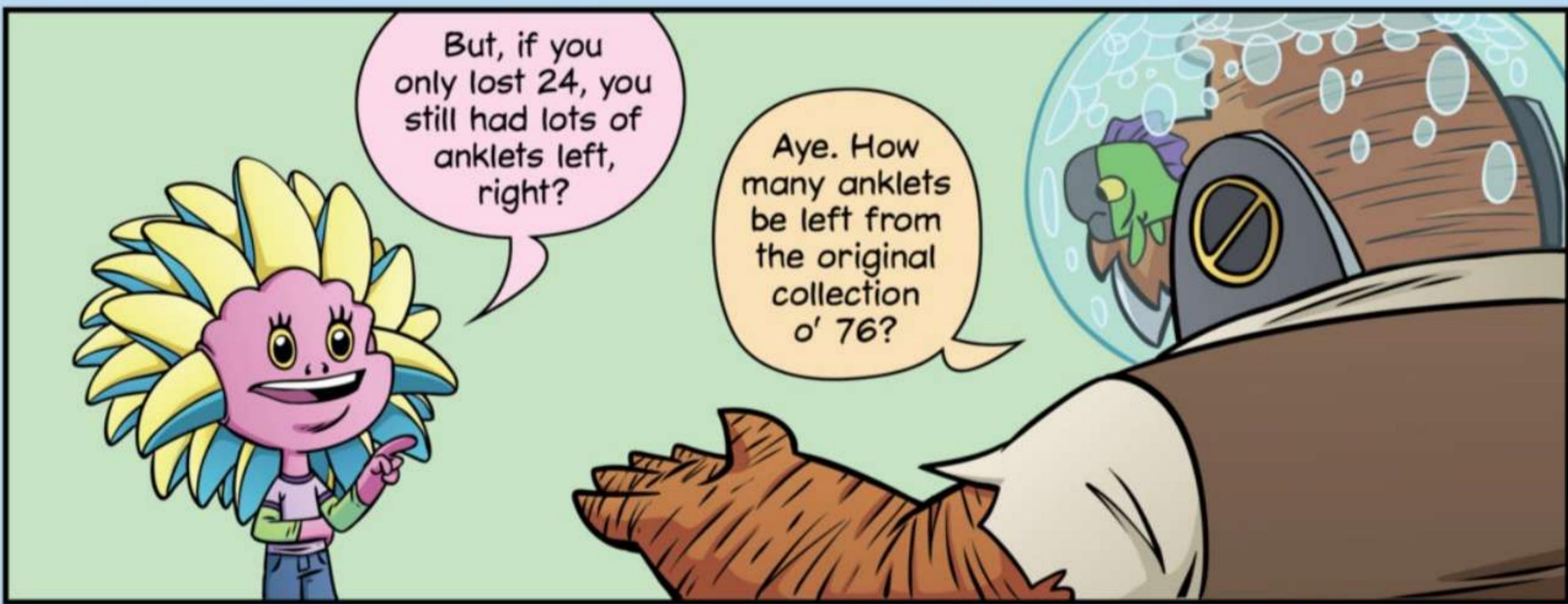
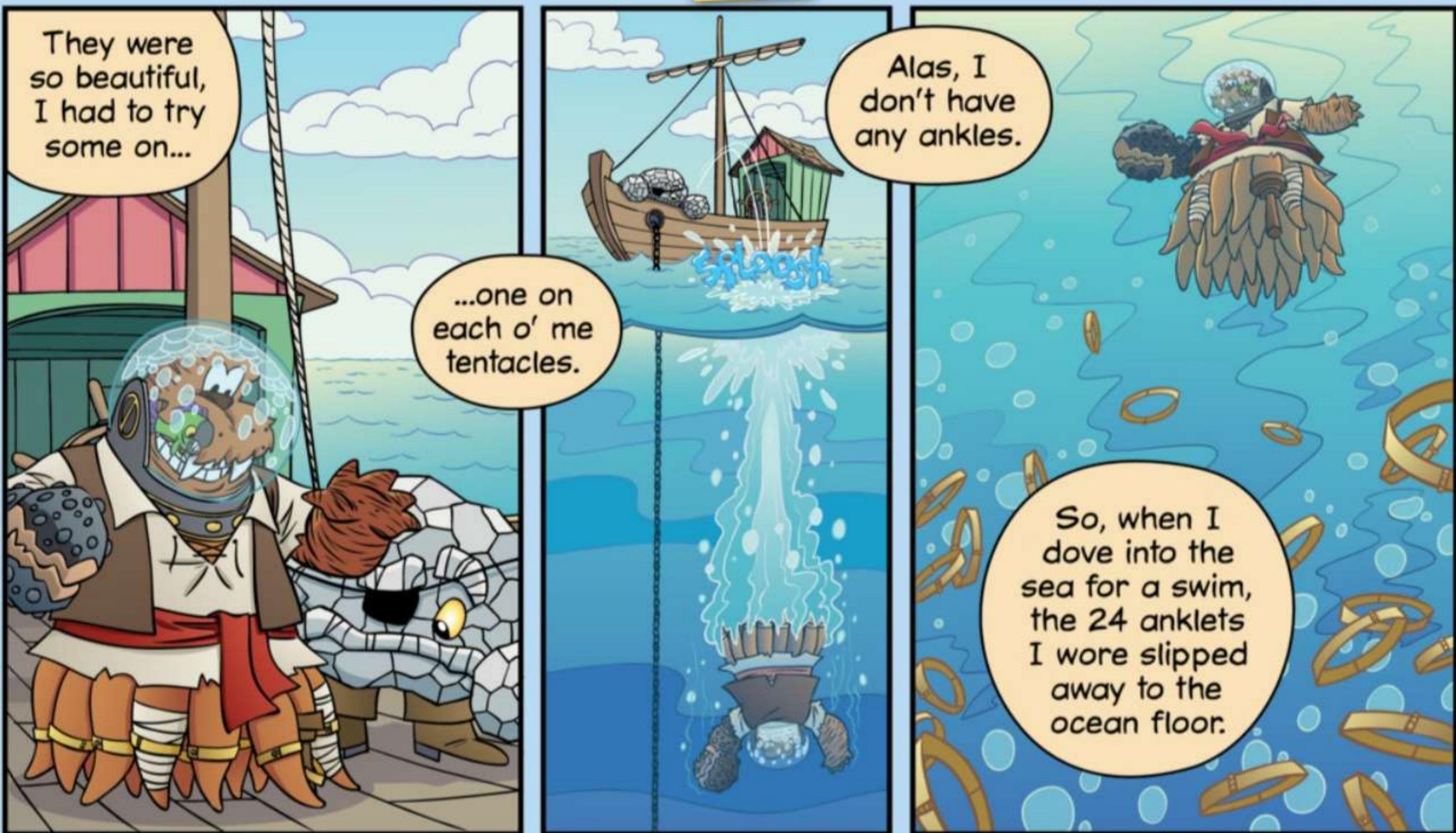
	Taking Away	14
	How do we subtract 1 ten and 8 ones from 5 tens and 2 ones?	
	+ & -	20
	How can $254 + 359 = 613$ help you solve $613 - 359$?	
	Counting Up	24
	What is the difference between 301 and 199?	
	A Little Extra	31
	What's an easy way to take away 198 from 356?	
	Alex's Notes	35
	Which strategy would you use to solve $235 - 188$?	
	Order	36
	Is $513 - 44 - 13$ equal to $513 - 13 - 44$?	

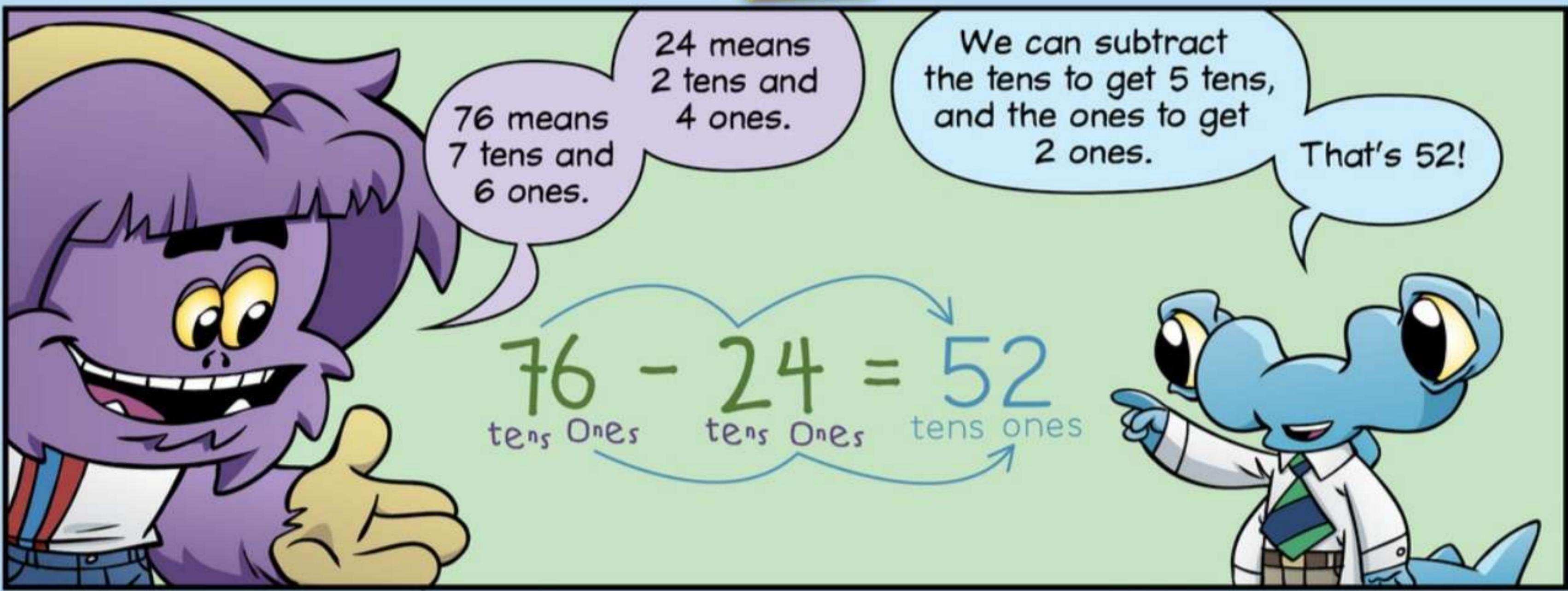
Chapter 4:

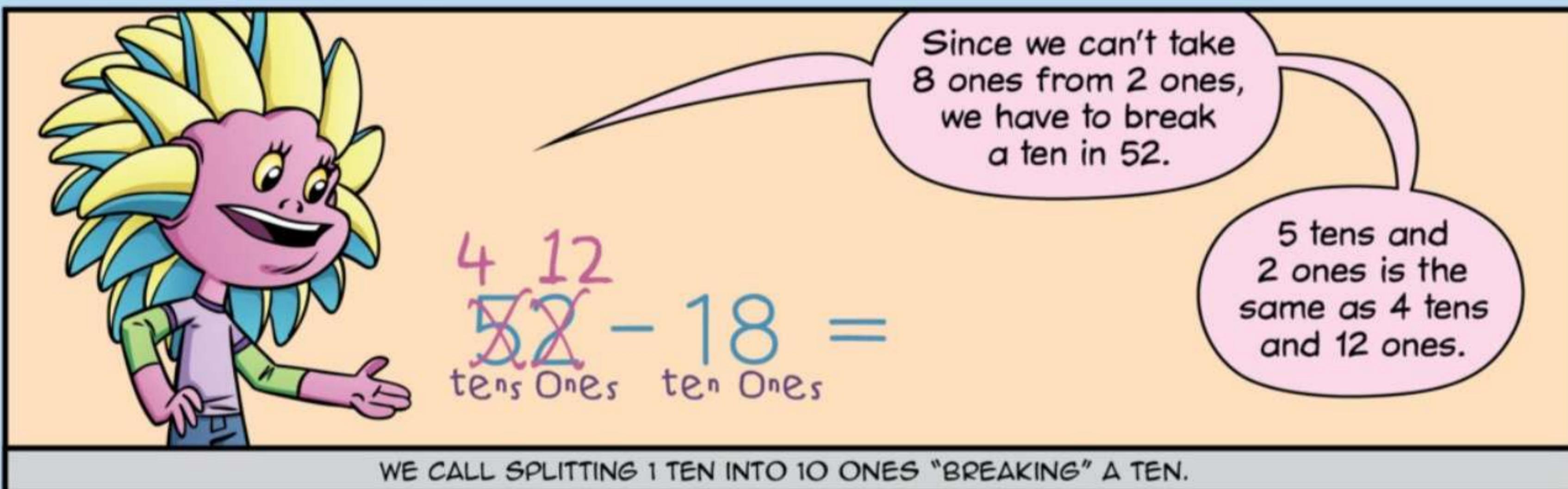
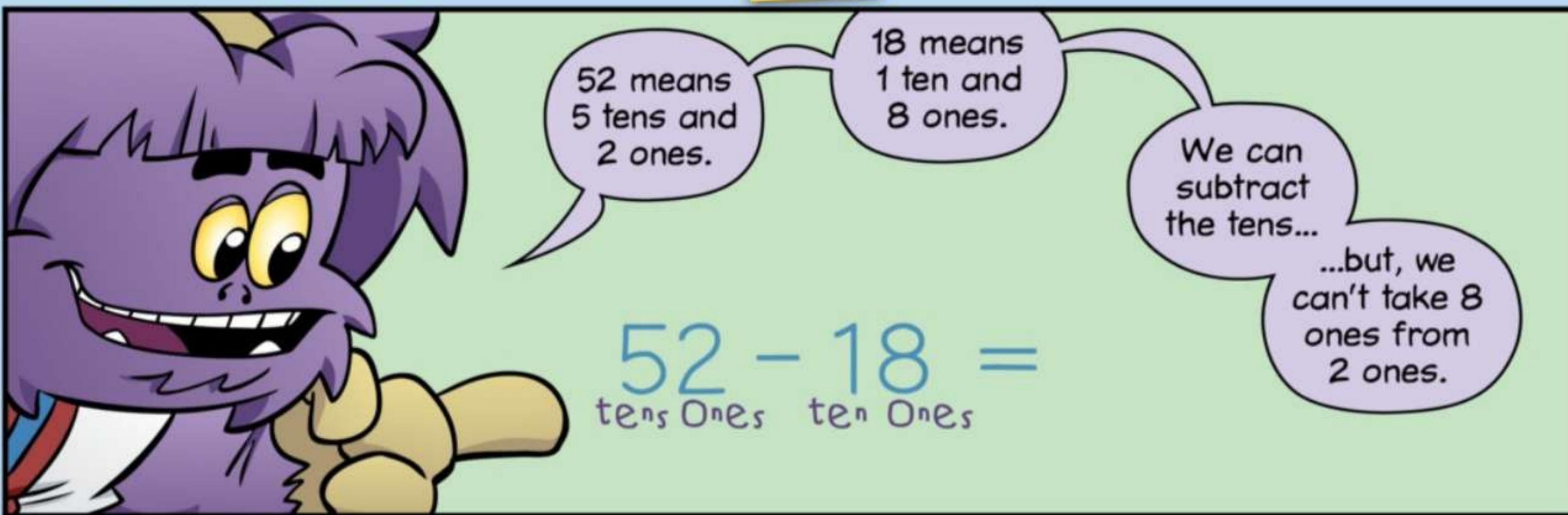
Subtraction



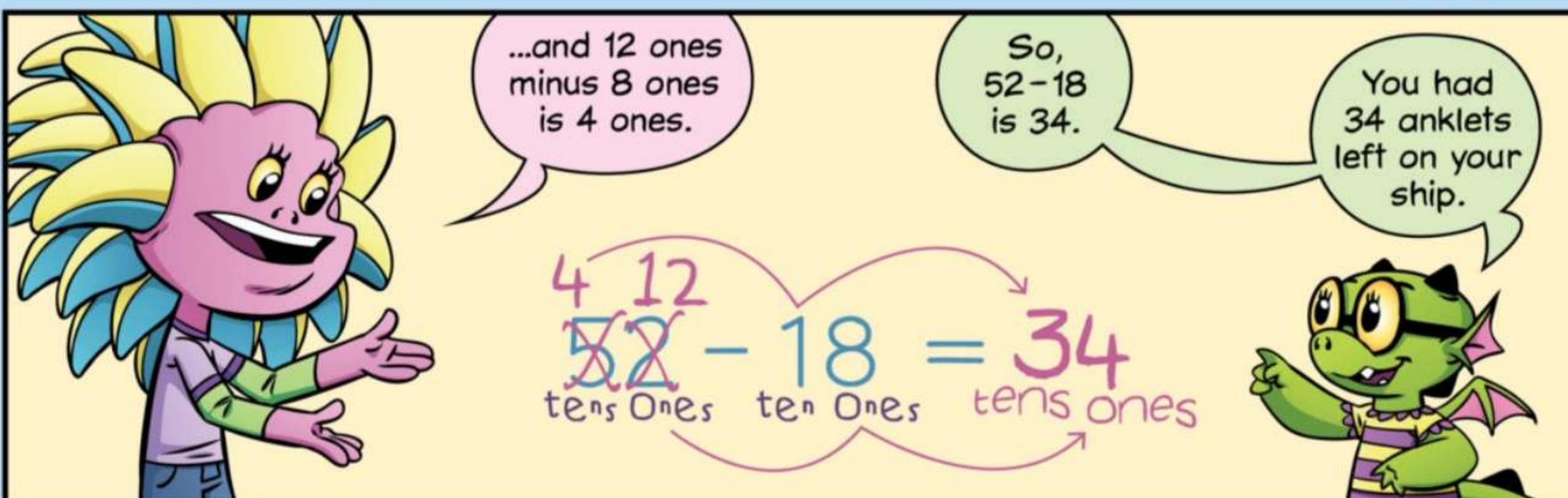
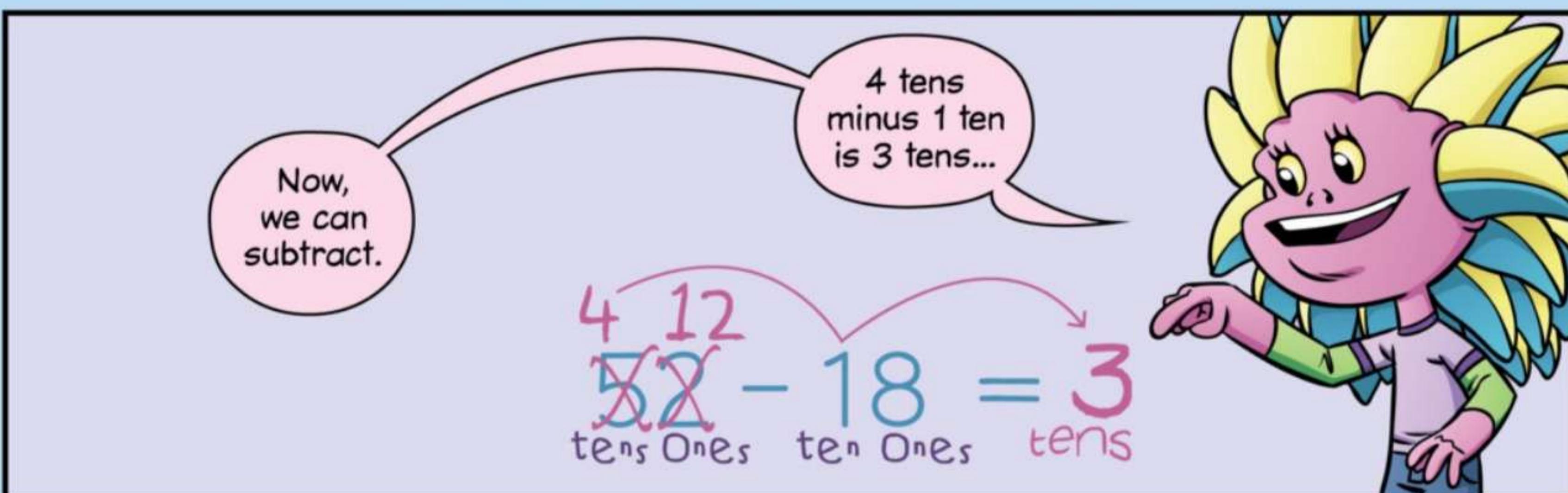








WE CALL SPLITTING 1 TEN INTO 10 ONES "BREAKING" A TEN.





$$85 - 47 =$$

$$469 - 193 =$$

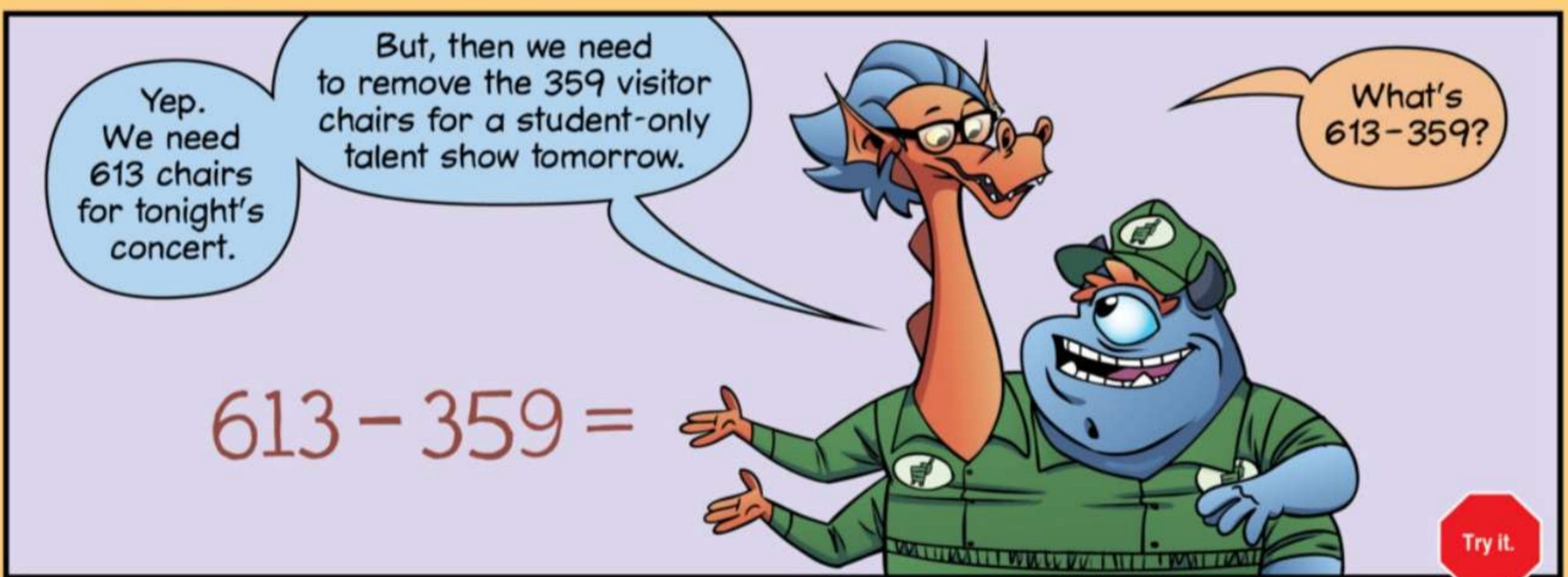
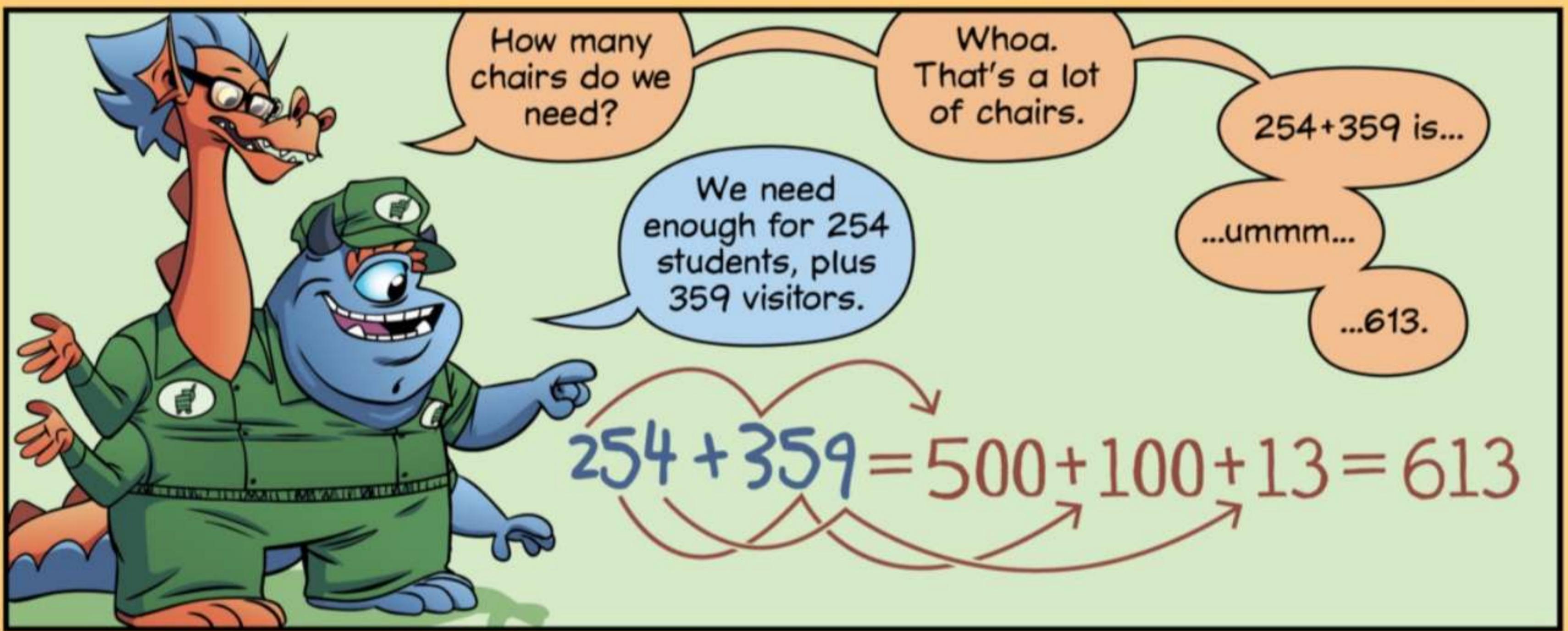


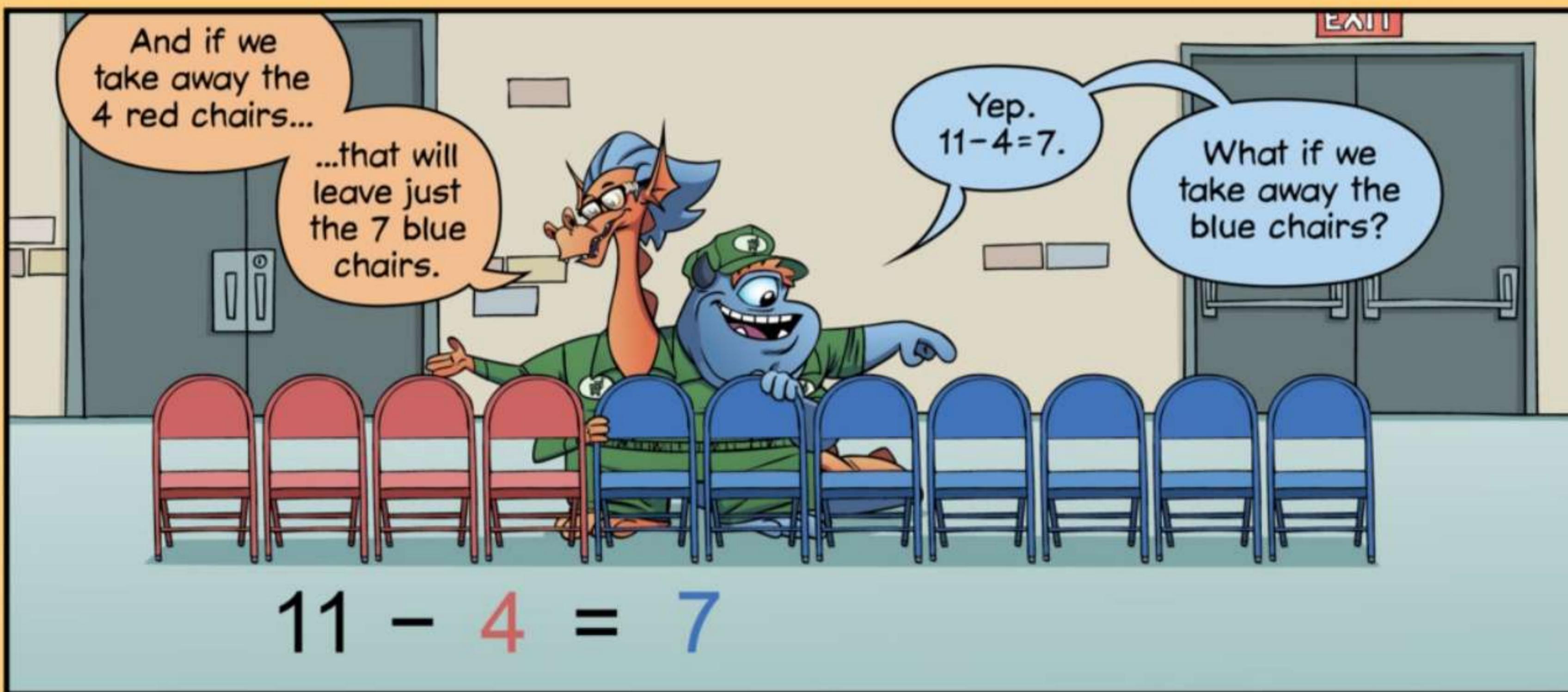
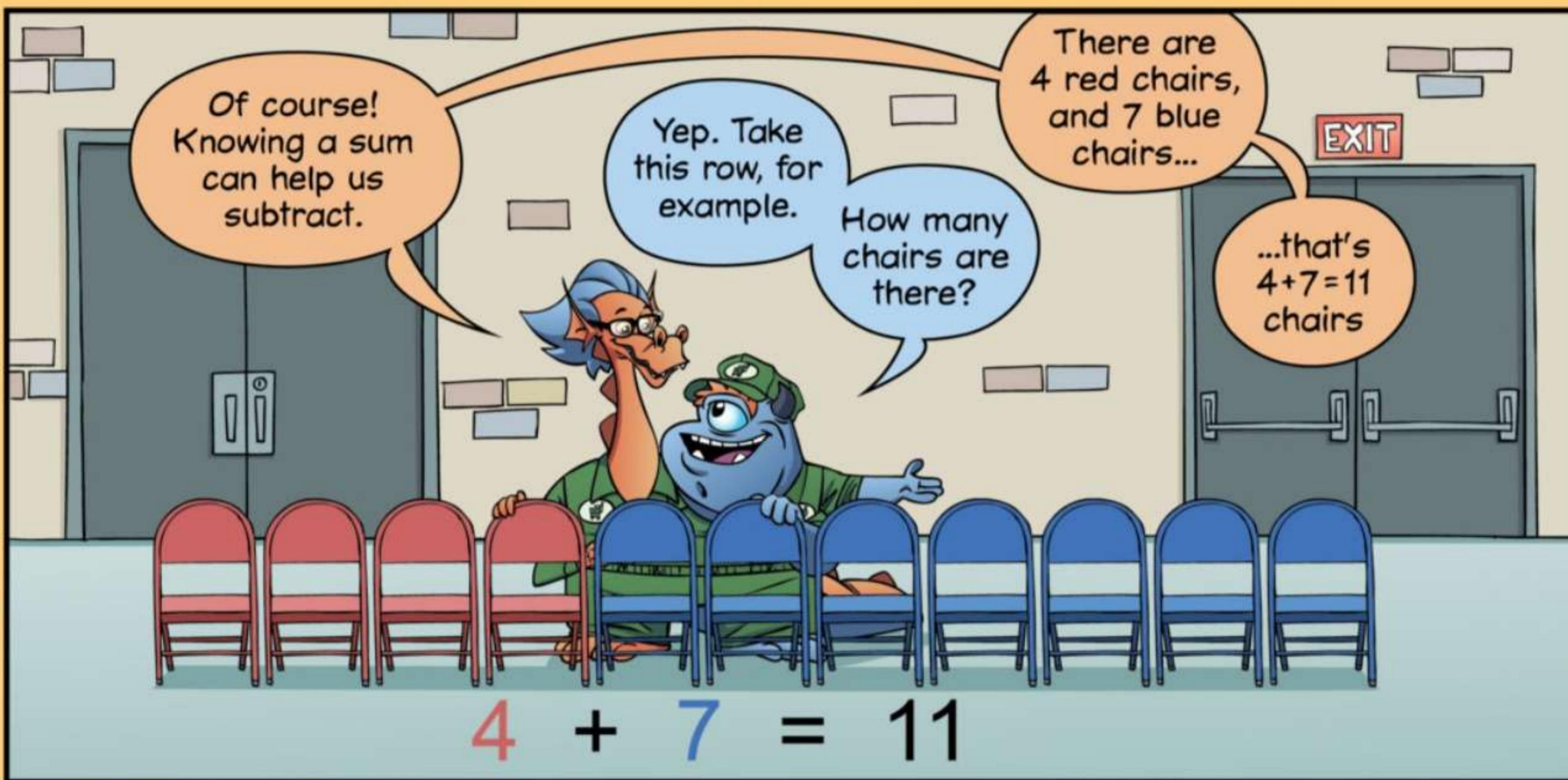
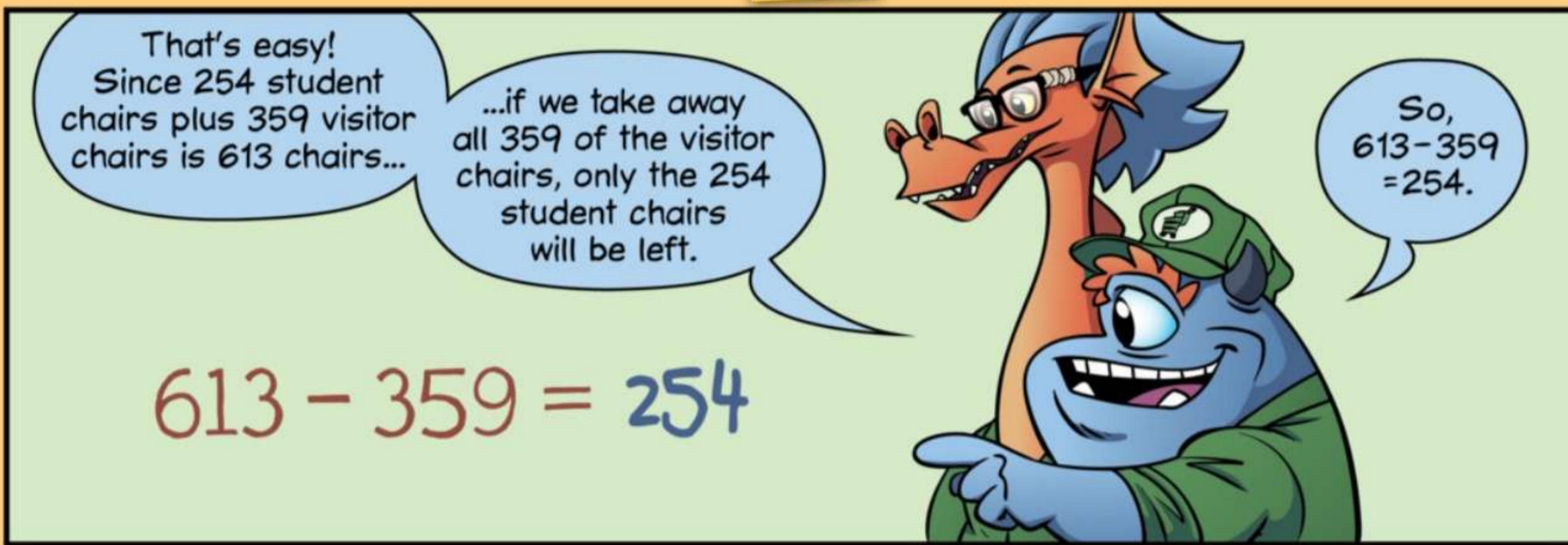
$$\begin{array}{r} \cancel{8} \cancel{5} \\ 7 \ 15 \\ - 4 7 \\ \hline 38 \end{array}$$

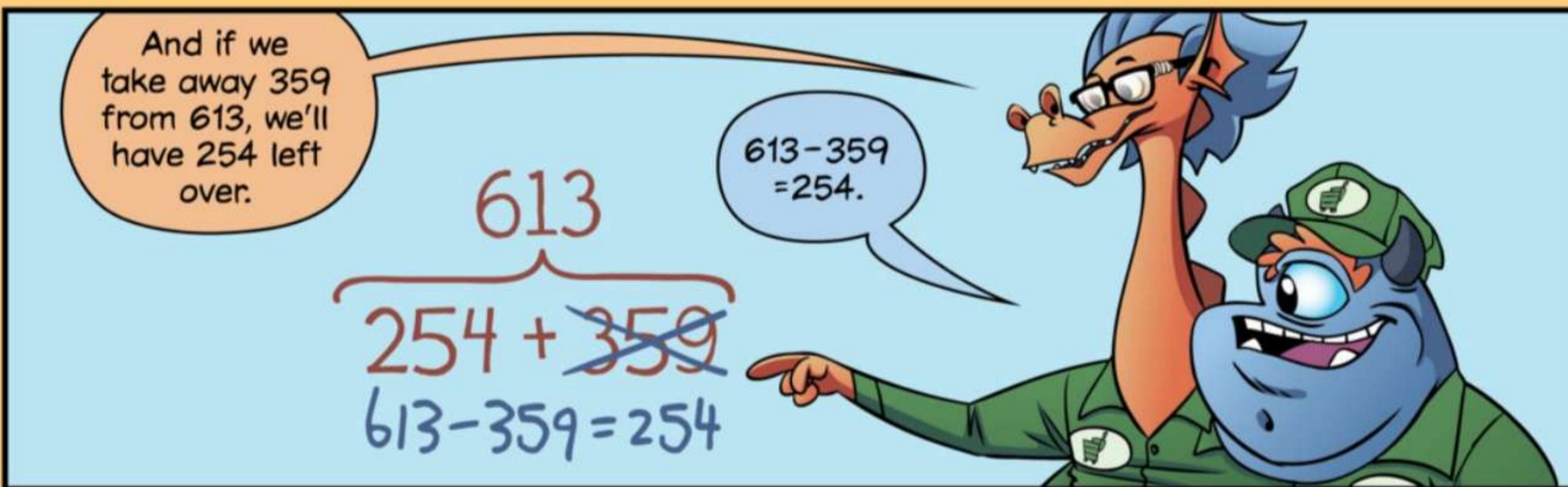
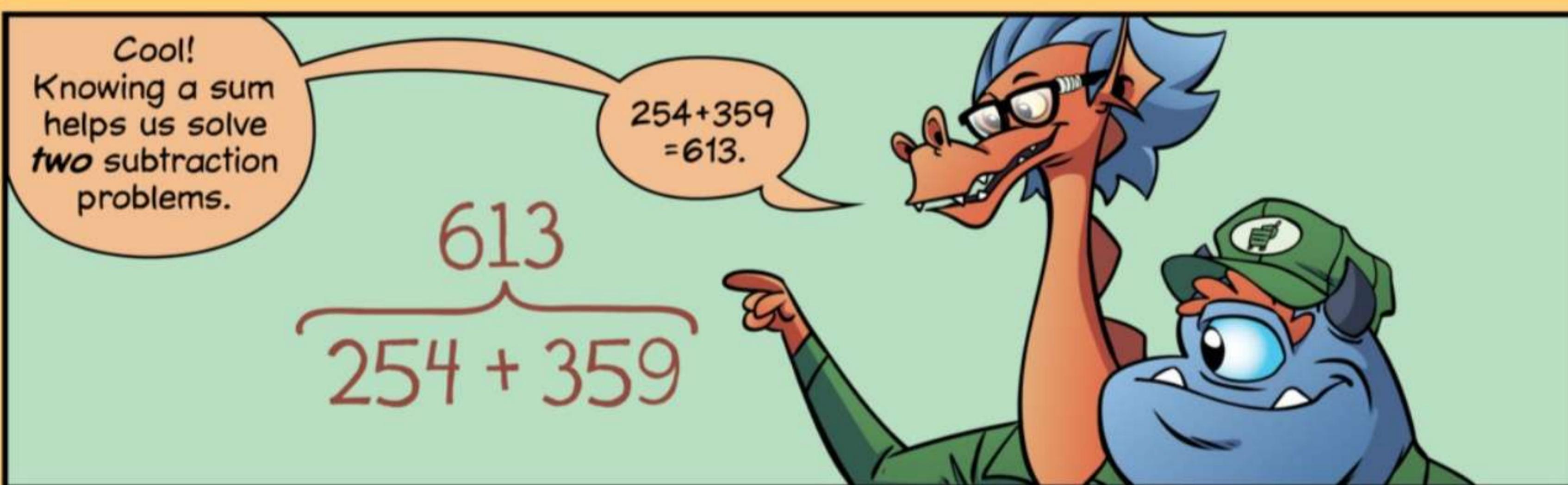
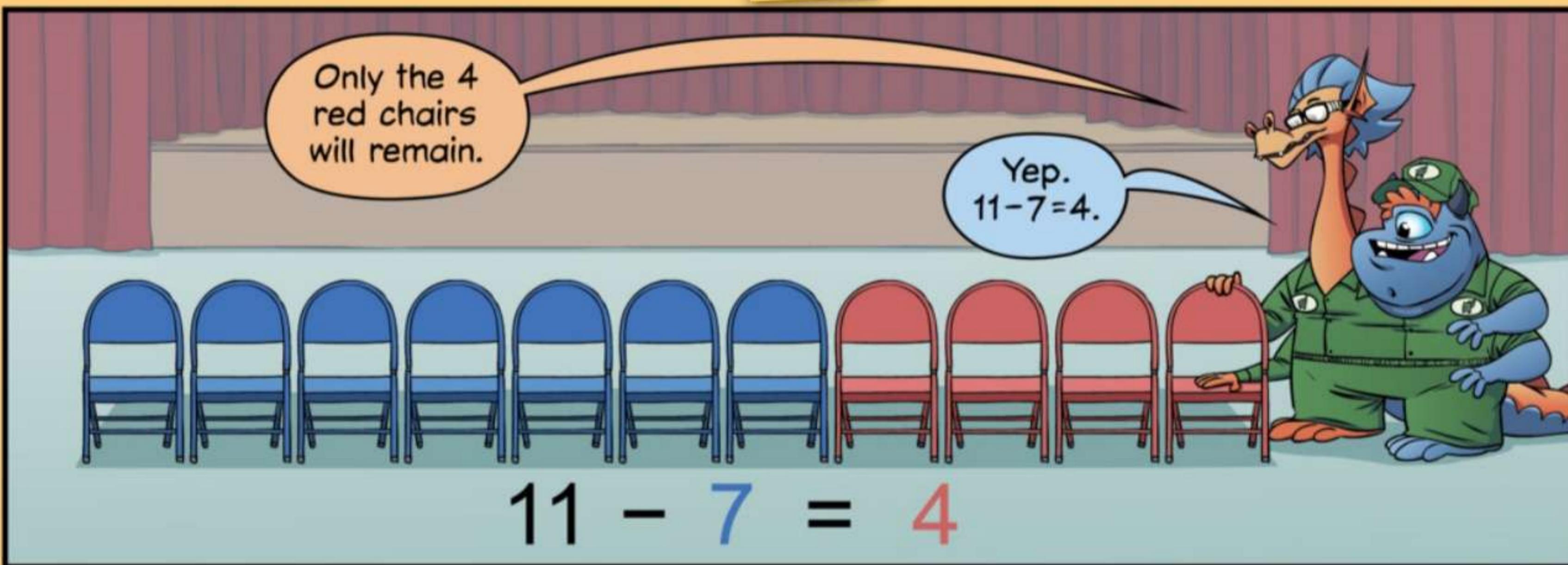
tens ones tens ones tens ones

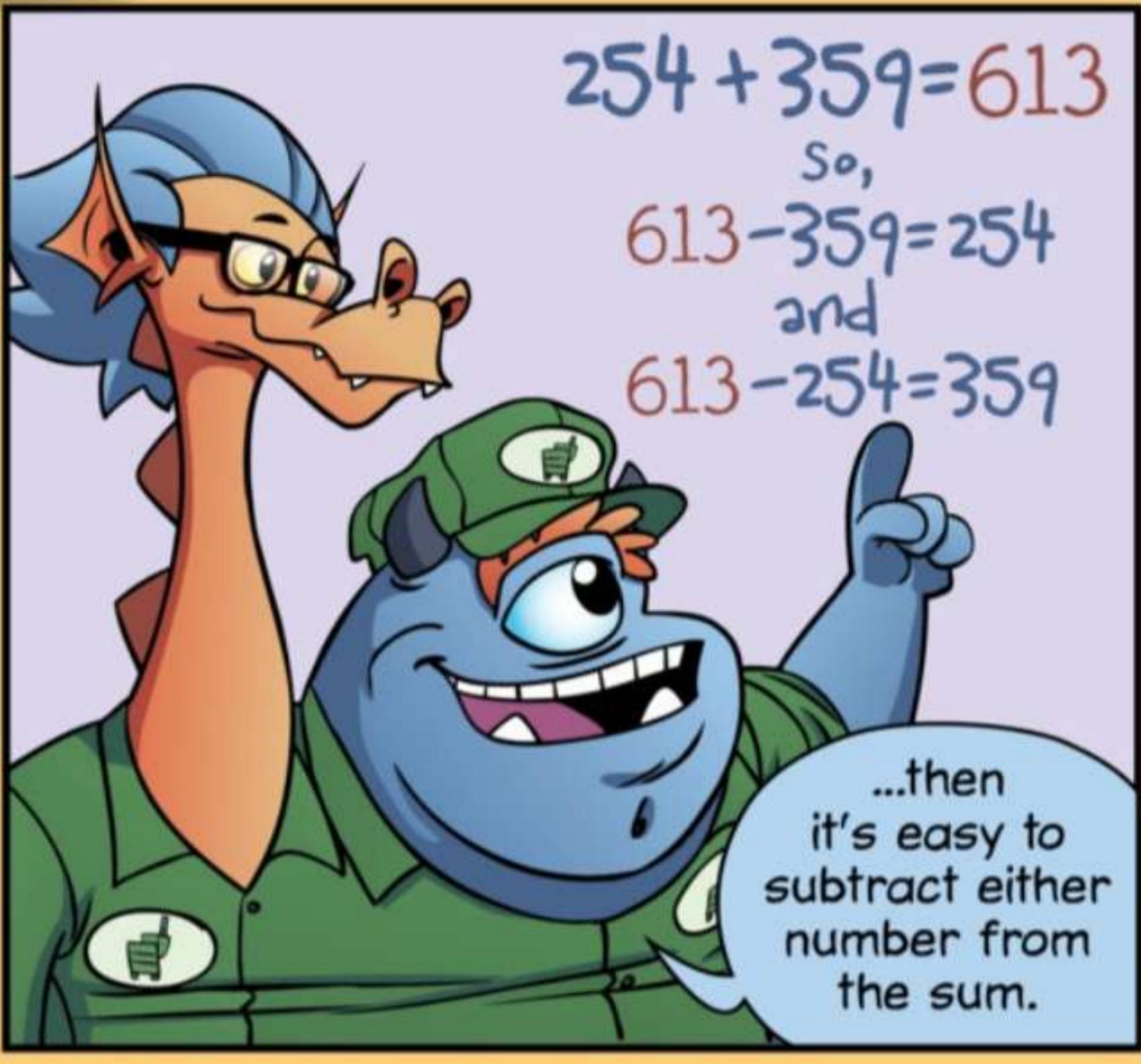












Ms. Q

Counting Up



We use subtraction to take away one number from another.

$8 - 5 = 3$ means that if we start with 8 and take away 5...

...we have 3 left.

$$8 - 5 = 3$$



Good.

How would you subtract $104 - 98$?

$$104 - 98 =$$



Since we can't take 8 from 4, we need to break a ten in 104.

But, since 104 has a 0 in the tens place, we need to break a hundred to make 10 tens...

...then, we need to break one of those tens--

Grogg!

104 - 98 is 6!

$$\begin{array}{r} & 9 \\ & \cancel{1} \cancel{0} \cancel{1} 4 \\ 104 - 98 & = 6 \end{array}$$

That's right, Winnie. How did you figure out $104 - 98$?

104 is 6 more than 98.

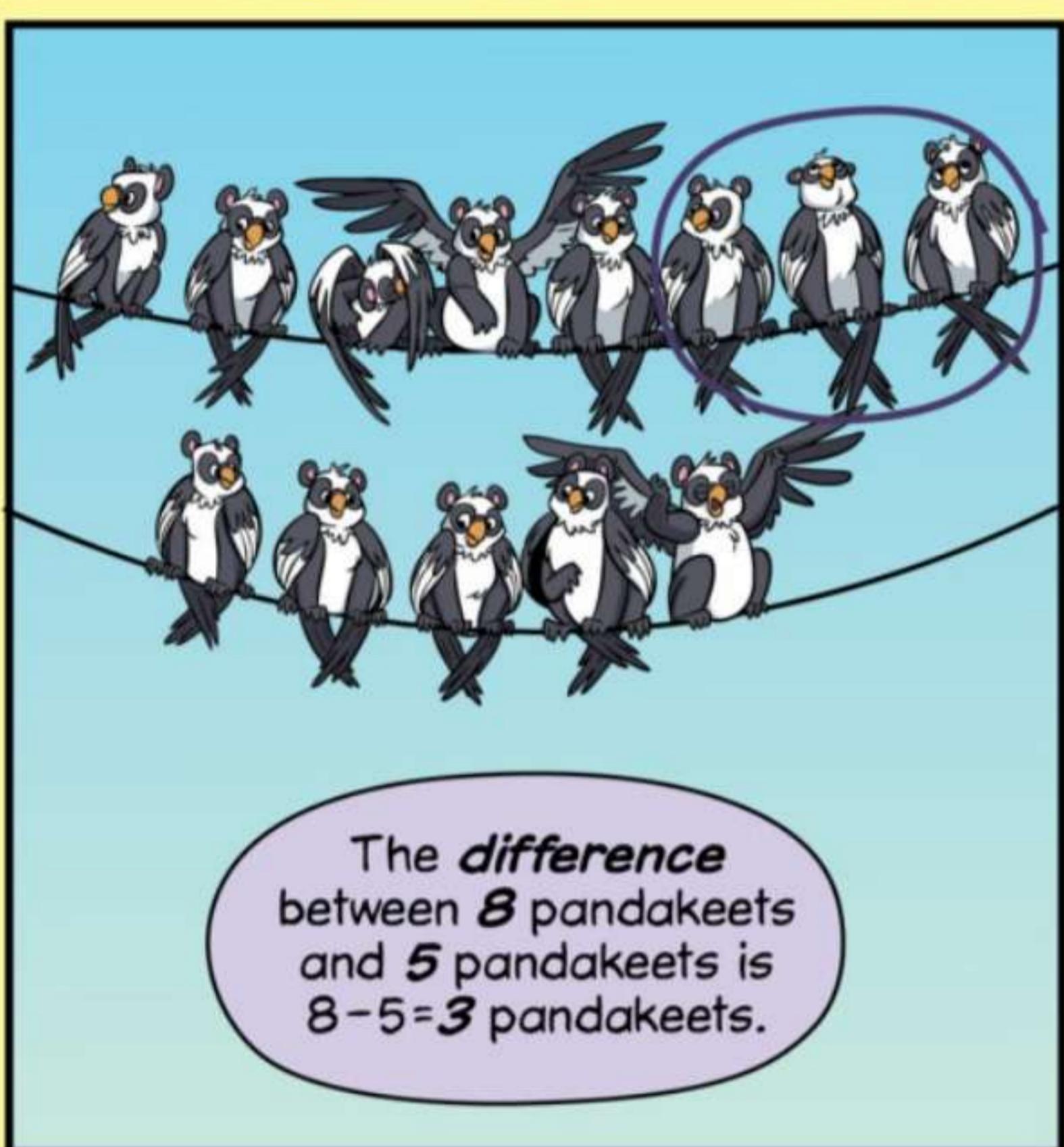
So, if you take away 98 from 104, there will be 6 left over.

I see.

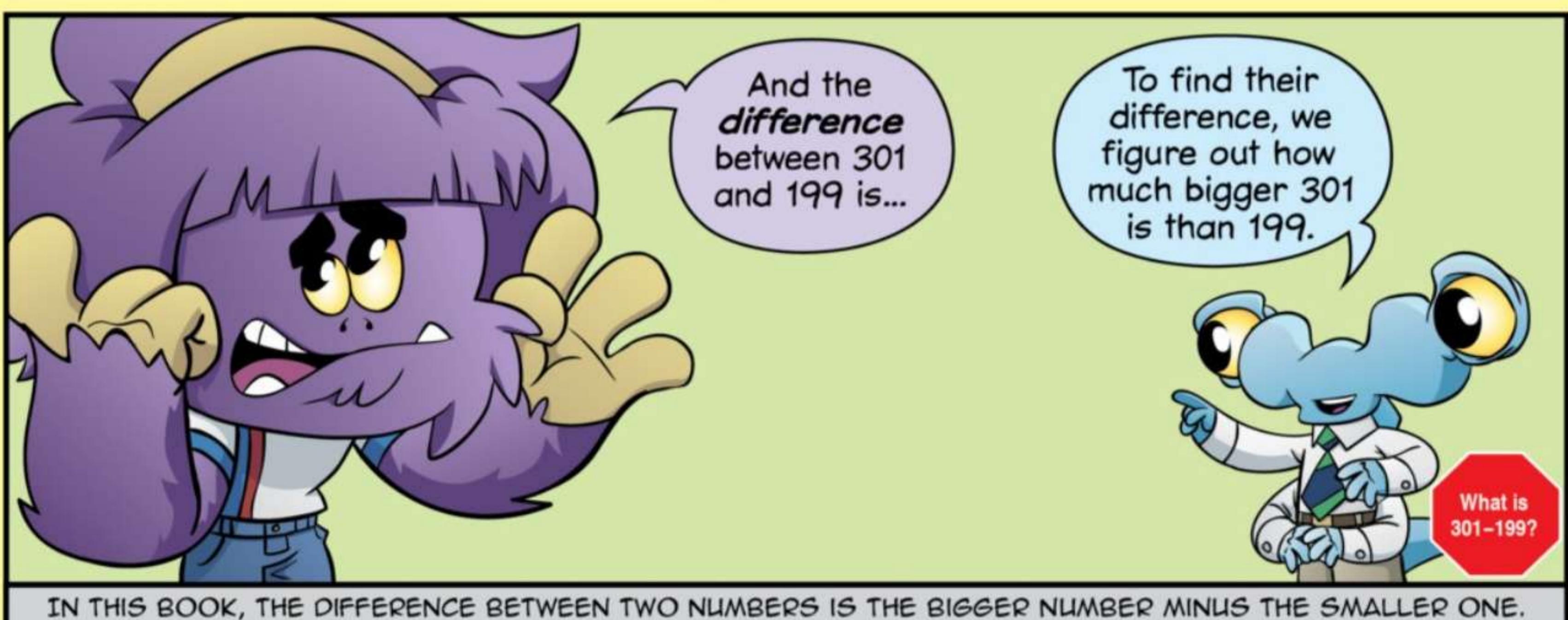
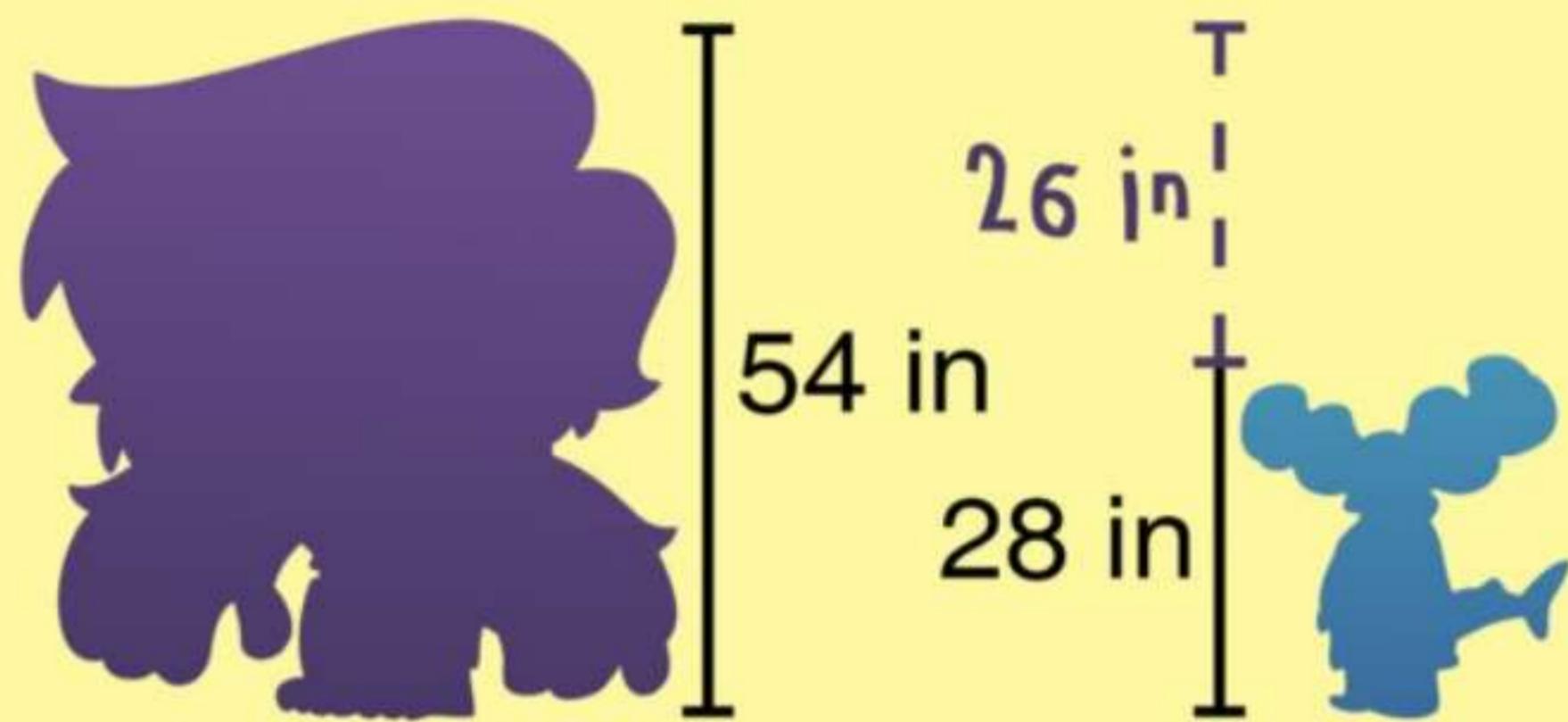
We can solve $104 - 98$ by figuring out how much bigger 104 is than 98.

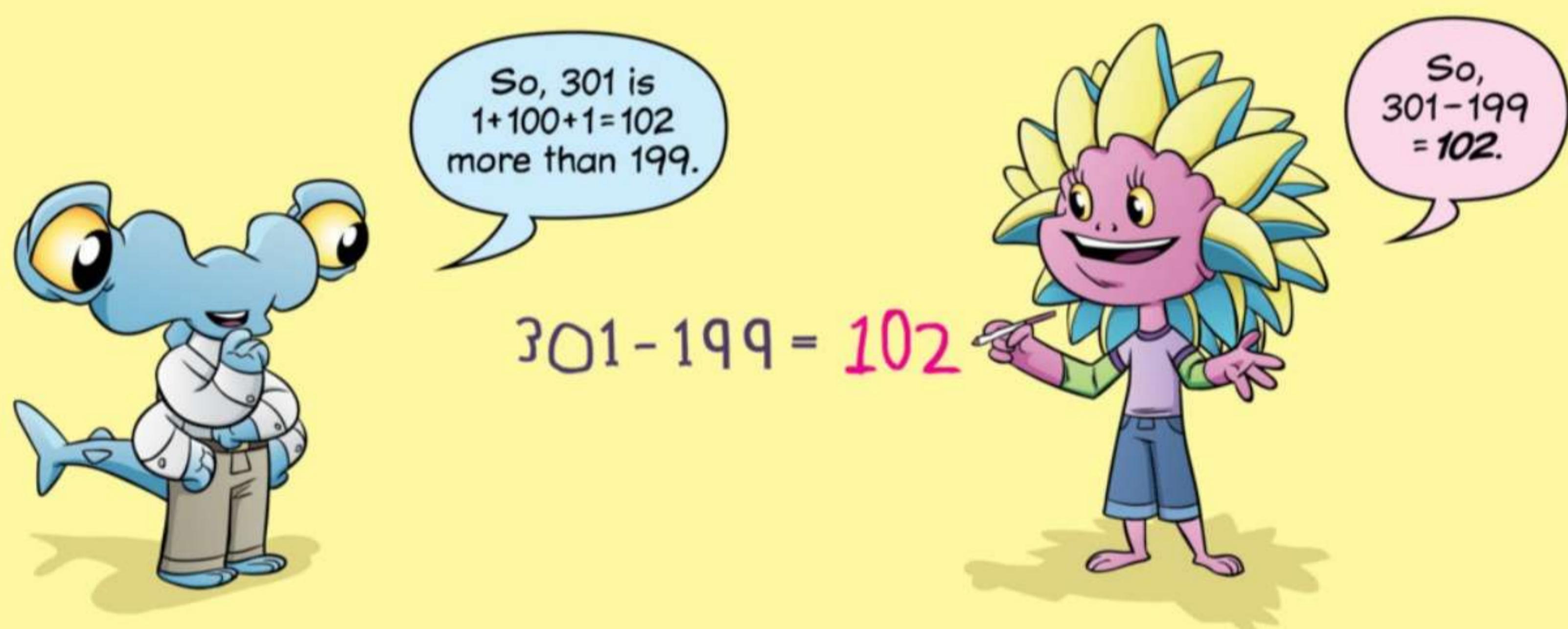
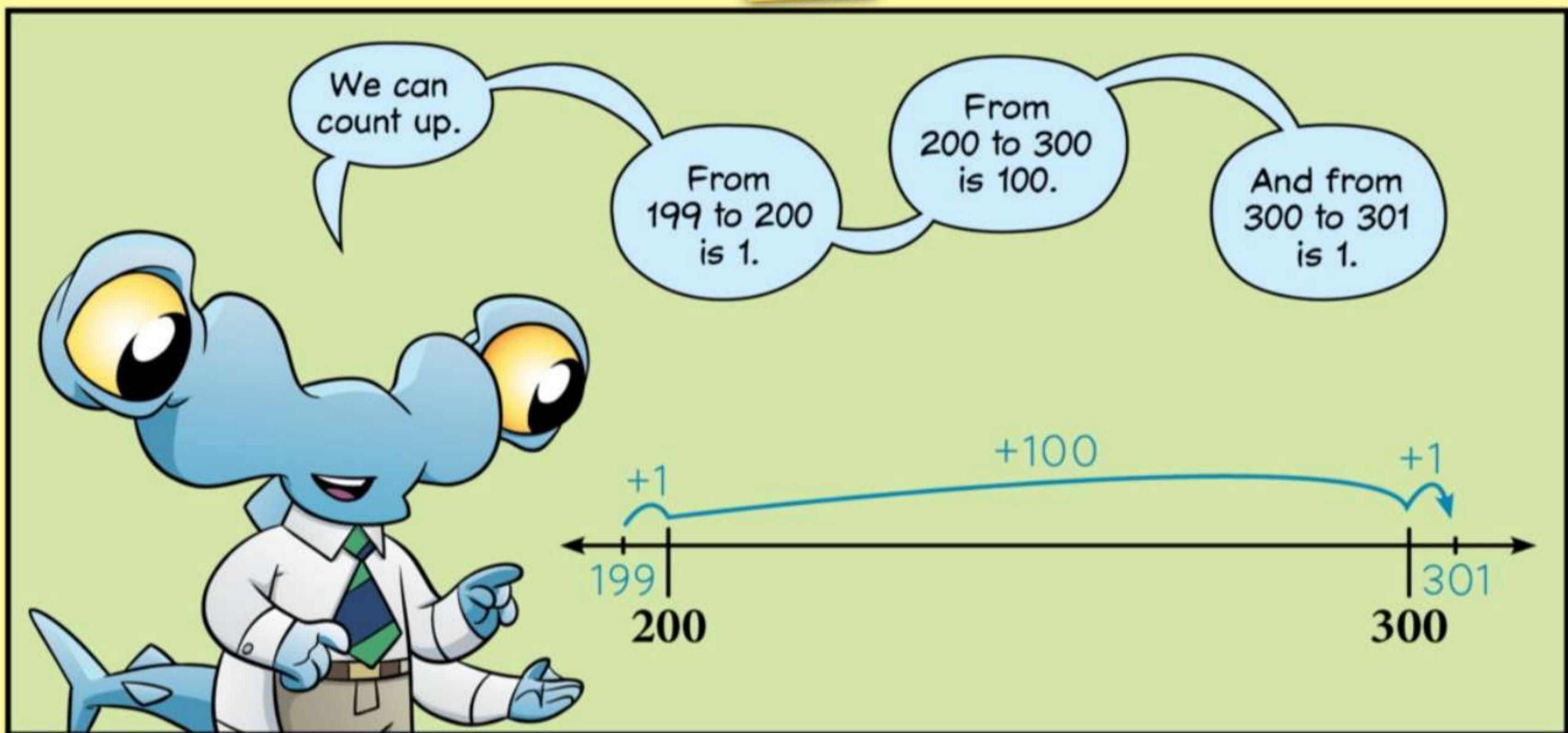
That's right, Lizzie.

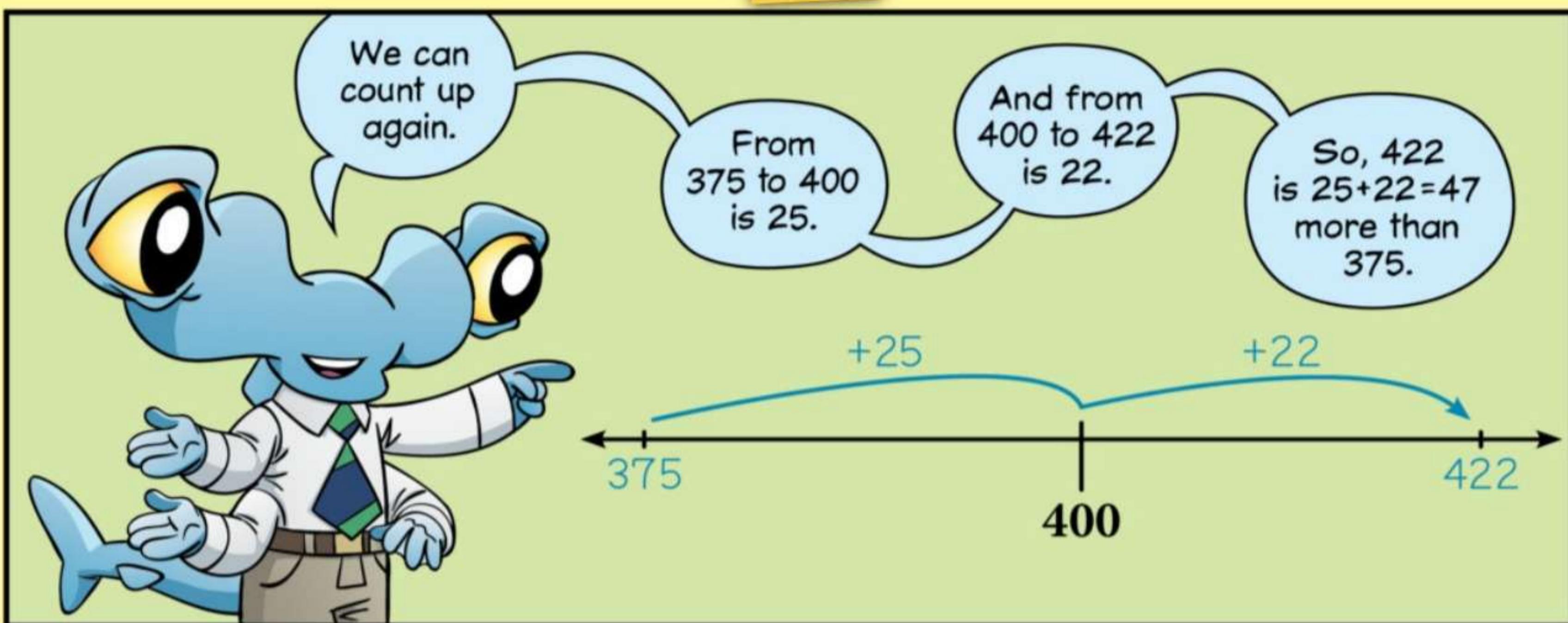
Do you know what we call the result of subtraction?

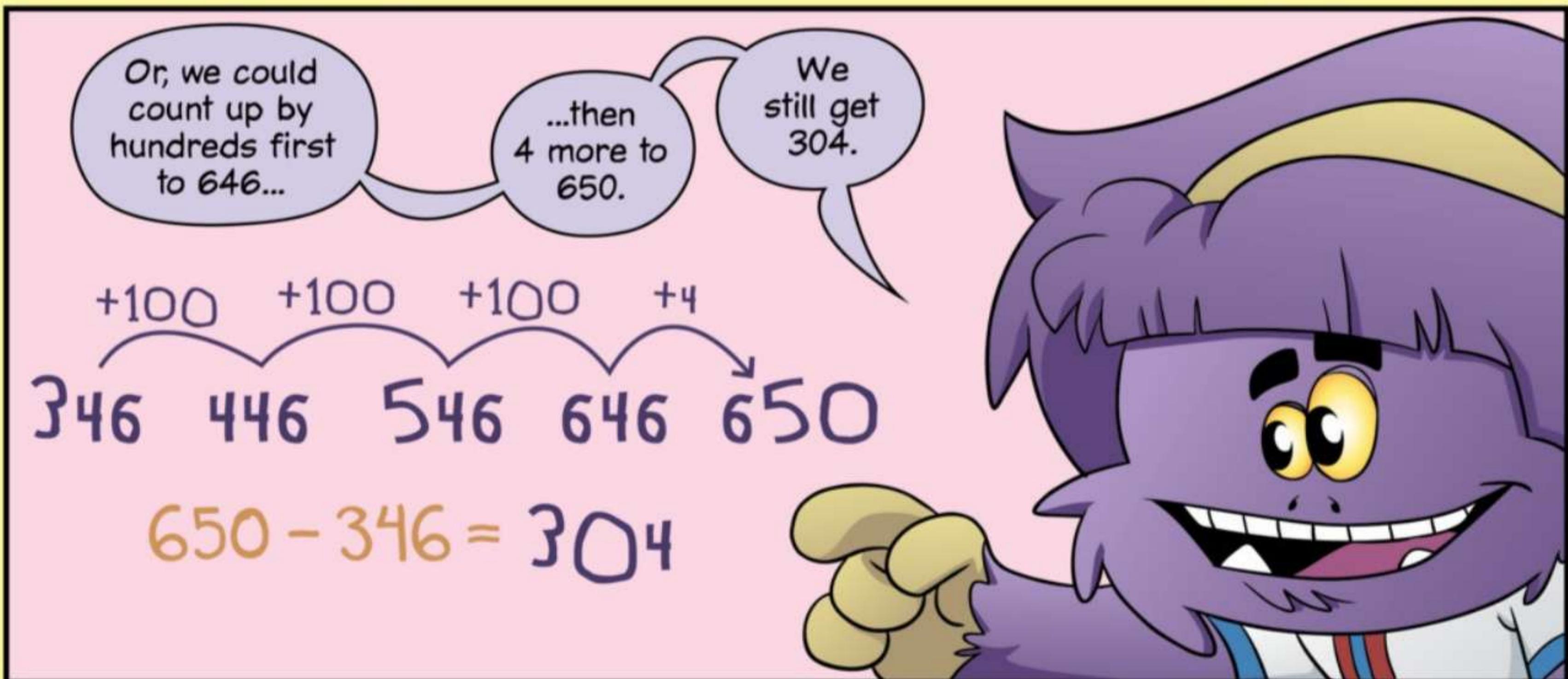
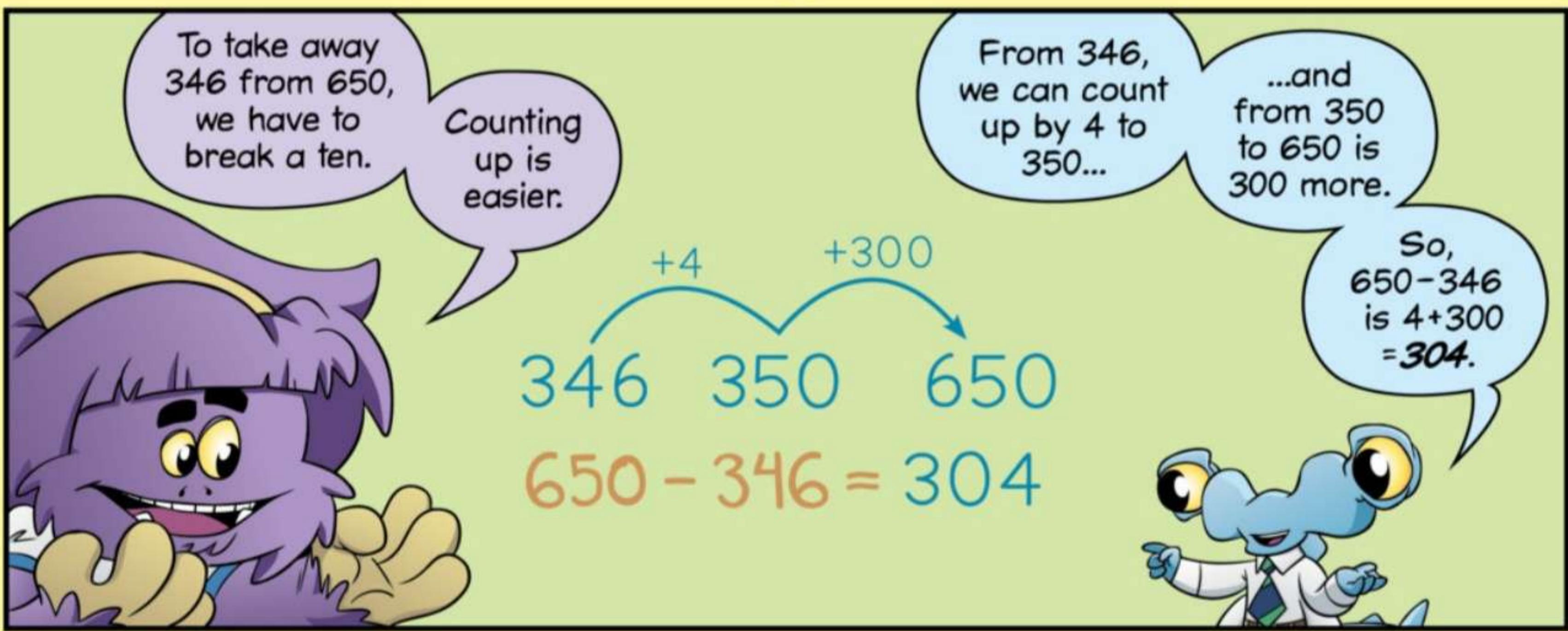
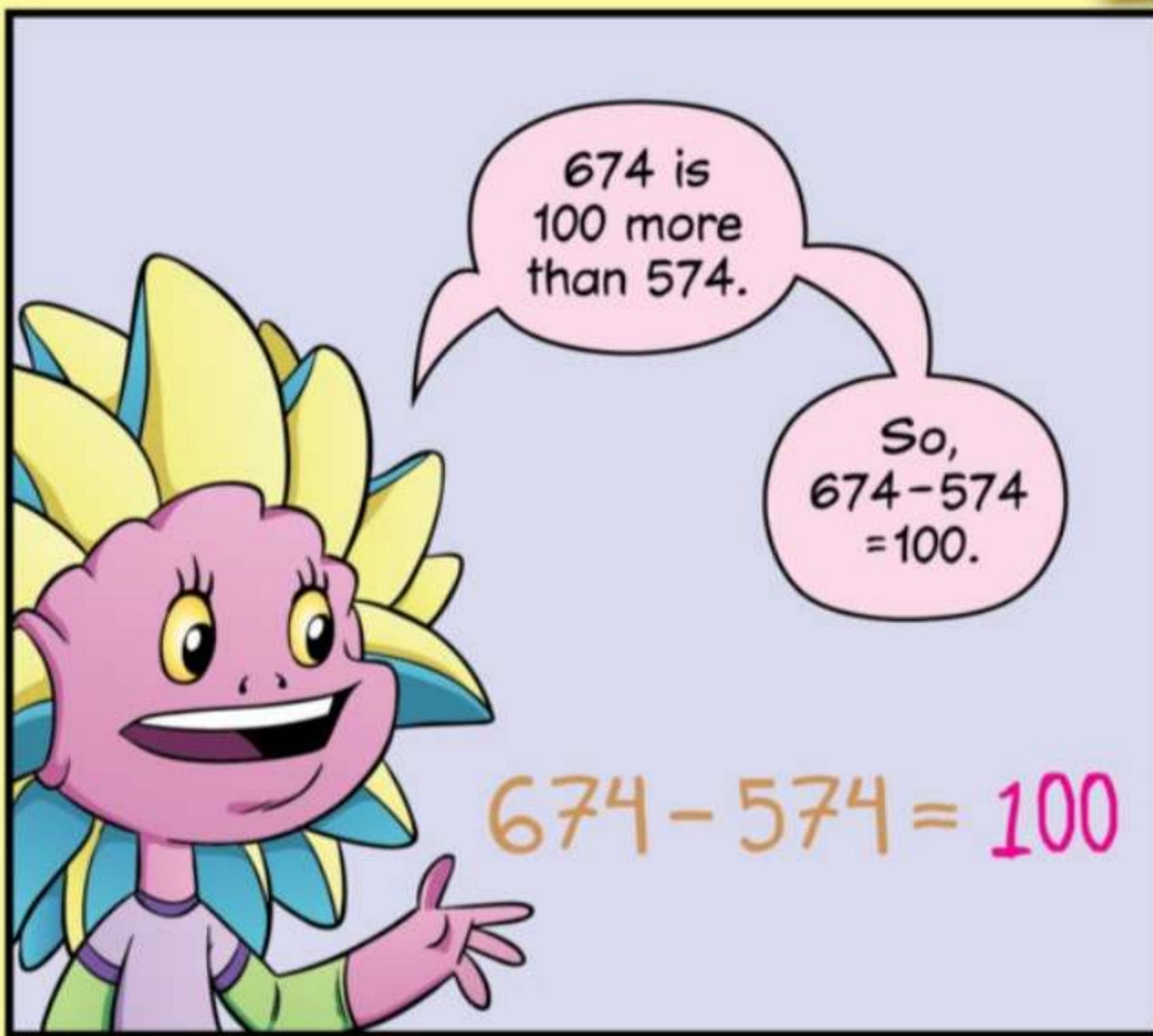


The **difference** between my height and Alex's height is $54-28=26$ inches.







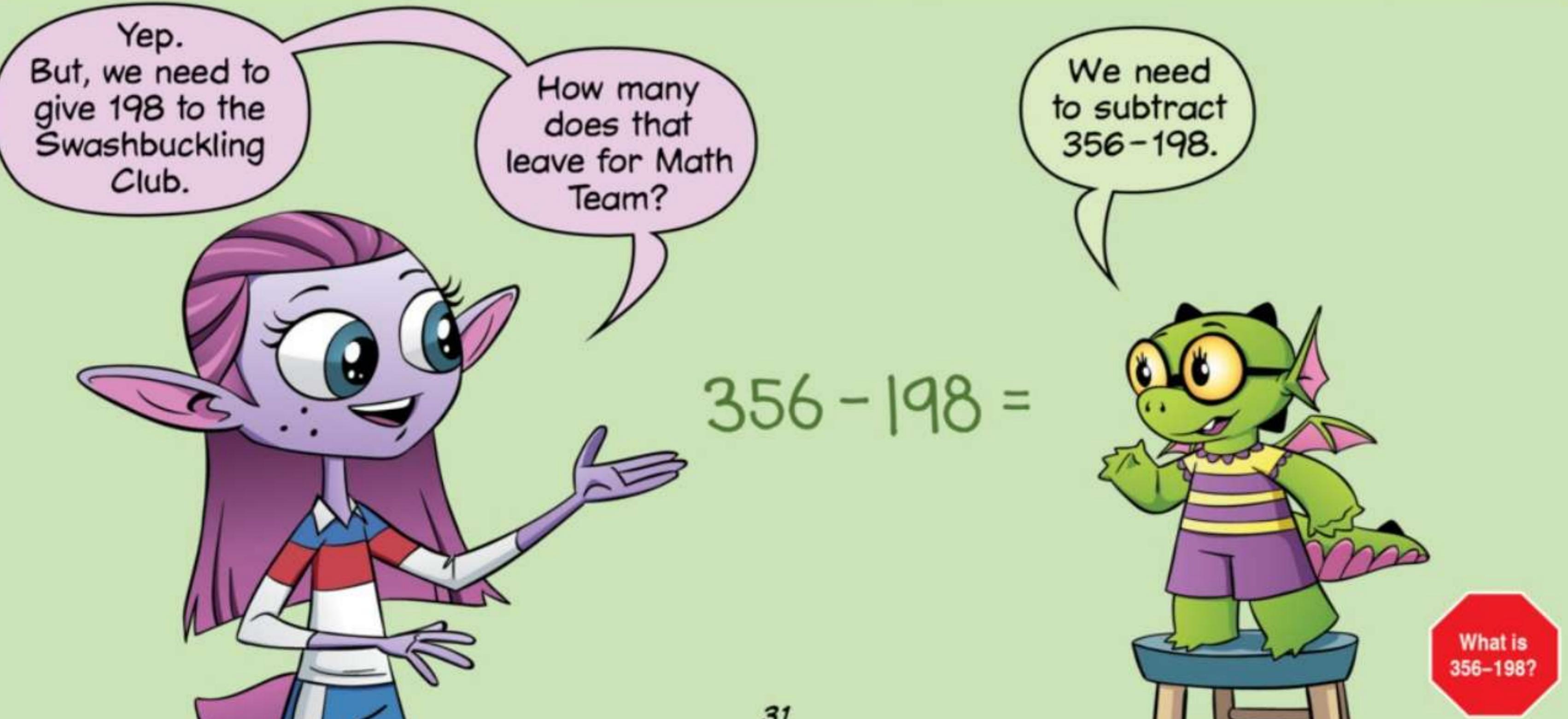


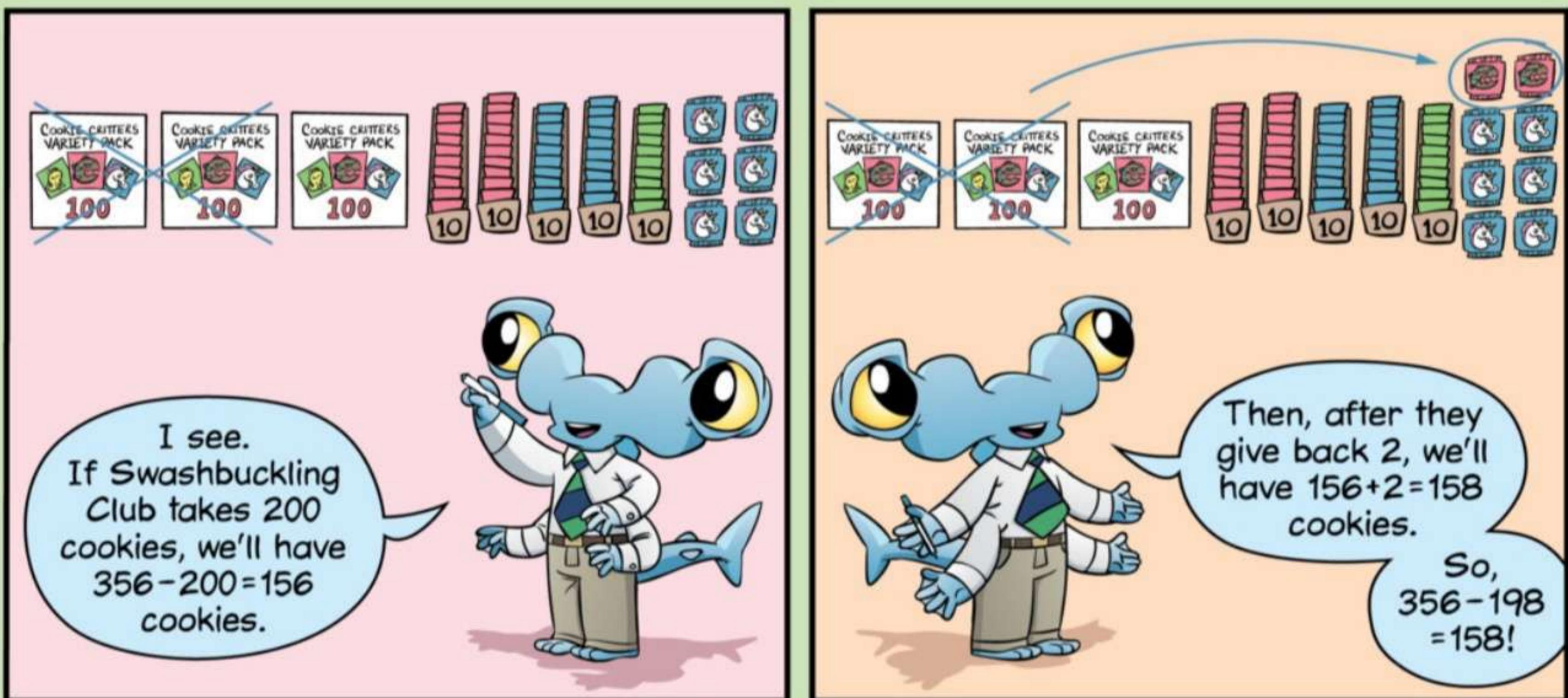


VISIT BEASTACADEMY.COM FOR THE SOLUTION!

MATH TEAM

A Little Extra





That's right.
Some subtraction
problems are easier
to solve by taking
away a little extra...

...then
giving it
back.

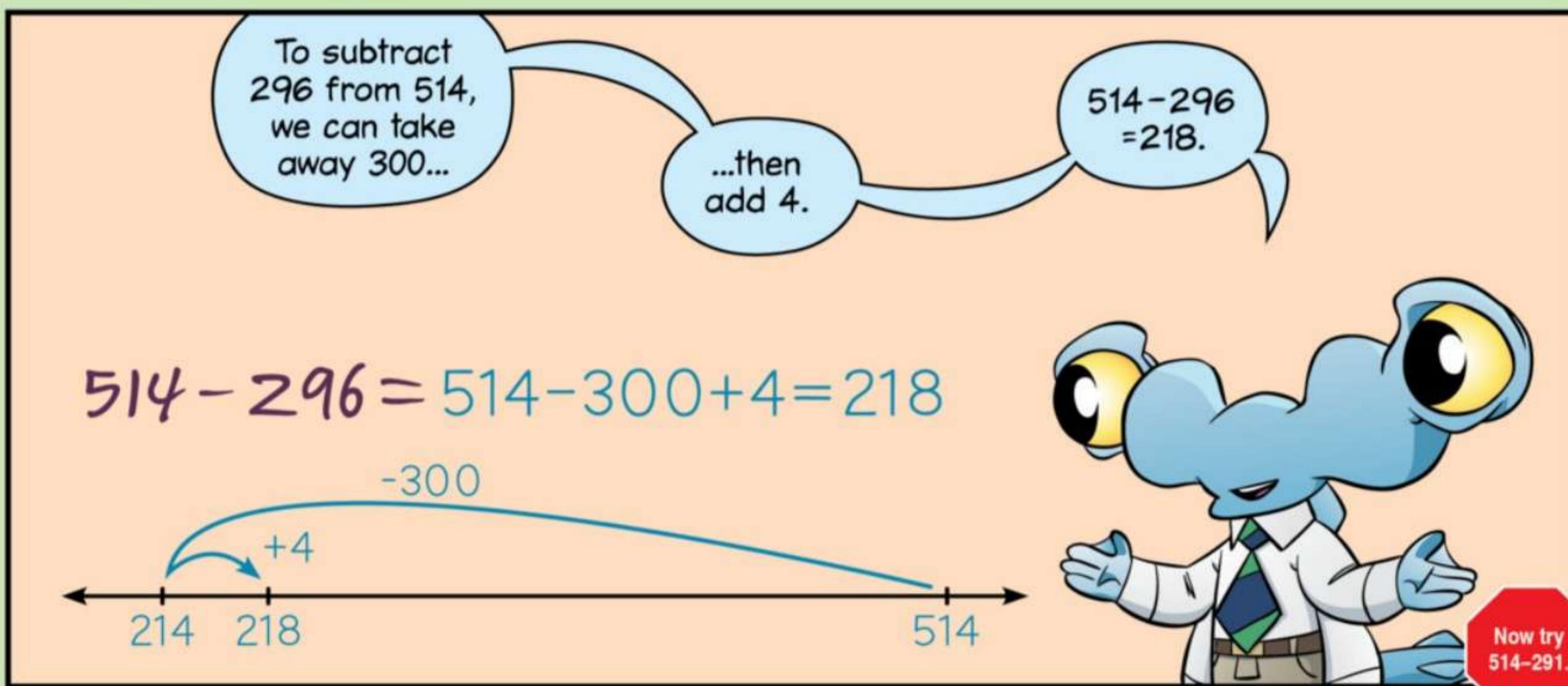
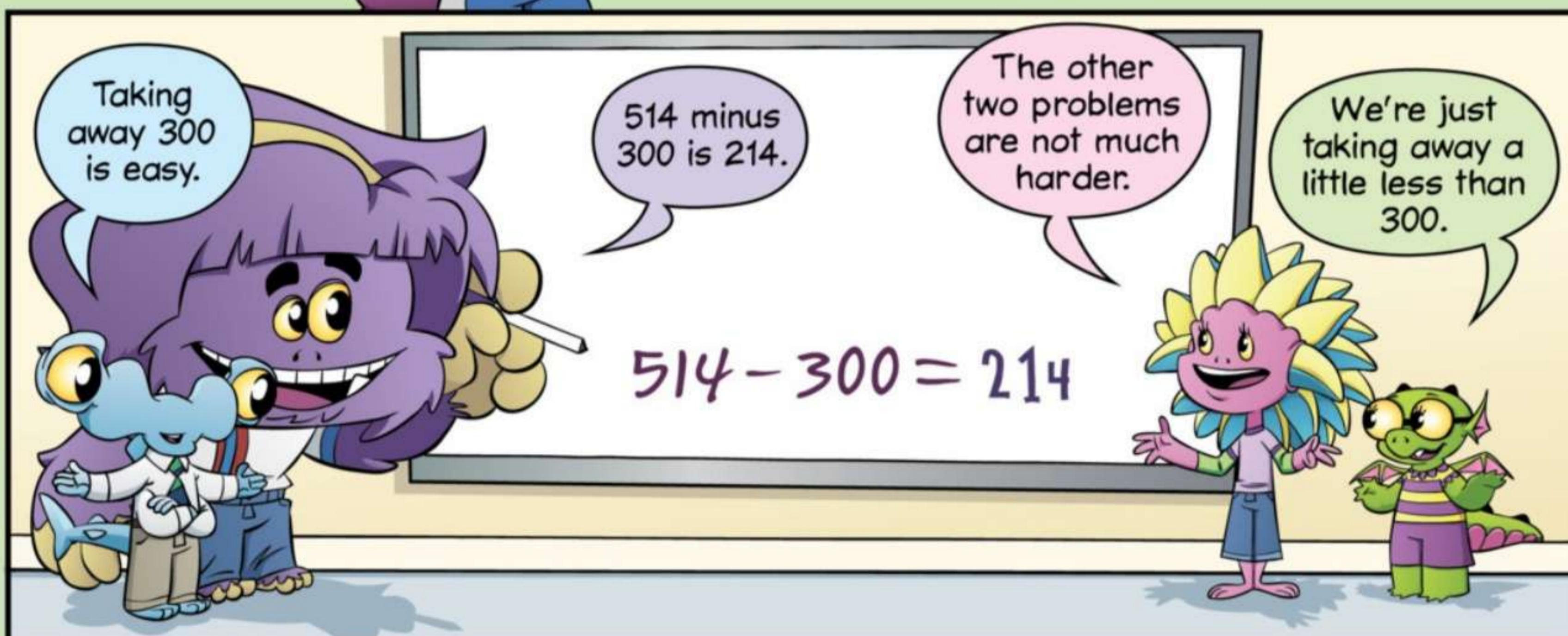
Try
these
three.

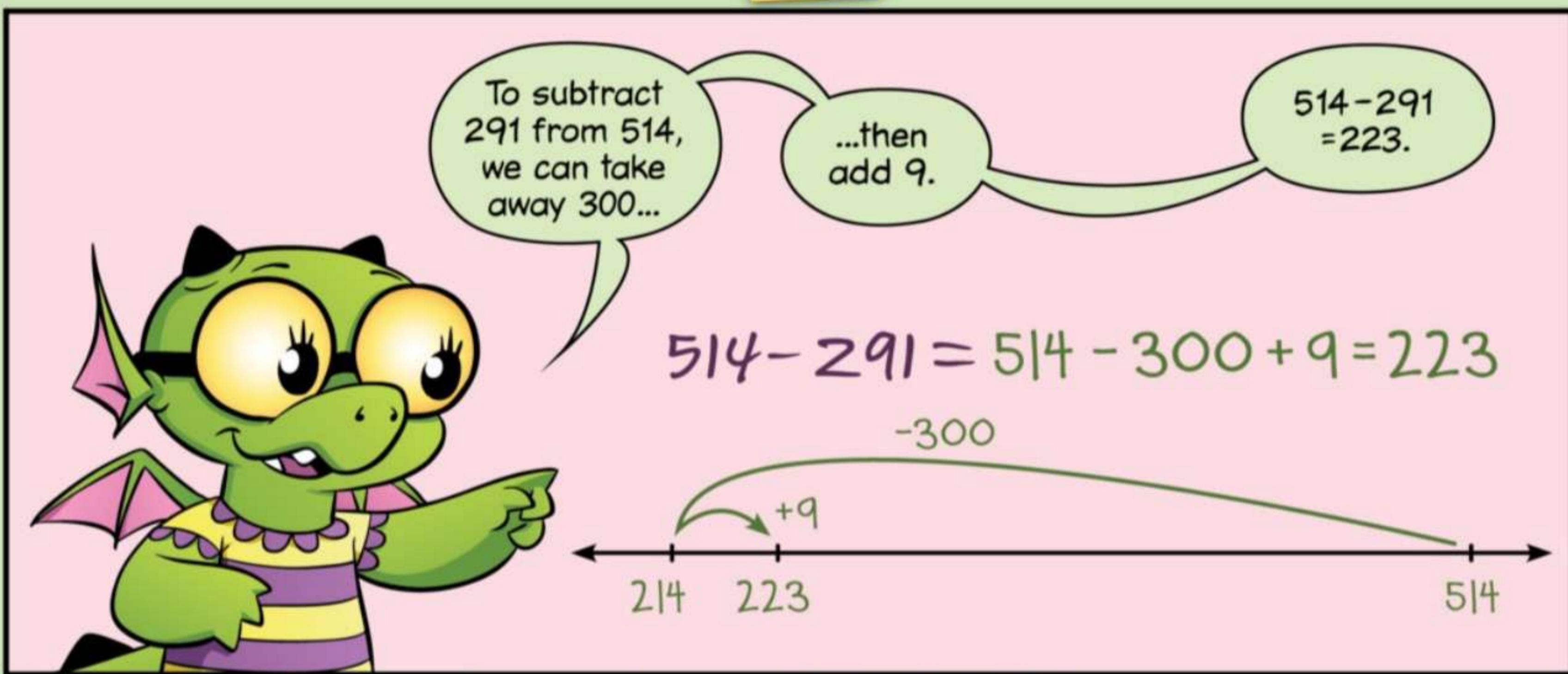


$$514 - 300 =$$

$$514 - 296 =$$

$$514 - 291 =$$





Subtraction Strategies

Alex

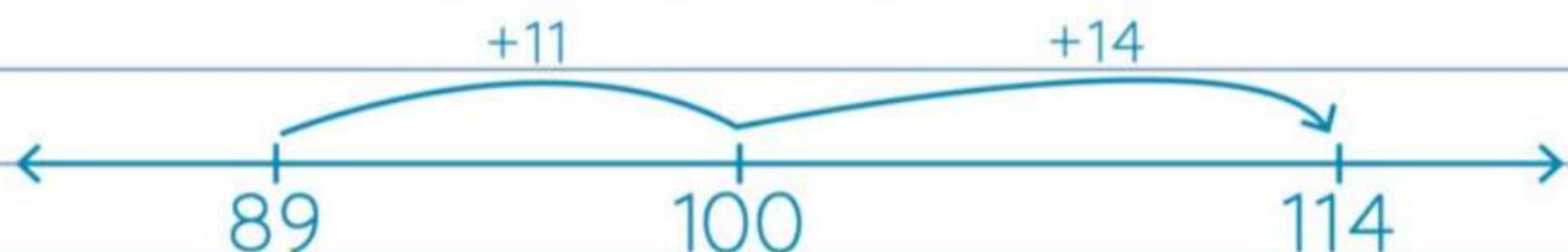
1. Place Value

$$76 - 53 = \underline{7} \ \underline{6} - \underline{5} \ \underline{3} = \underline{2} \ \underline{3}$$

tens ones tens ones tens ones

2. Counting Up

$$114 - 89 = 11 + 14 = 25$$



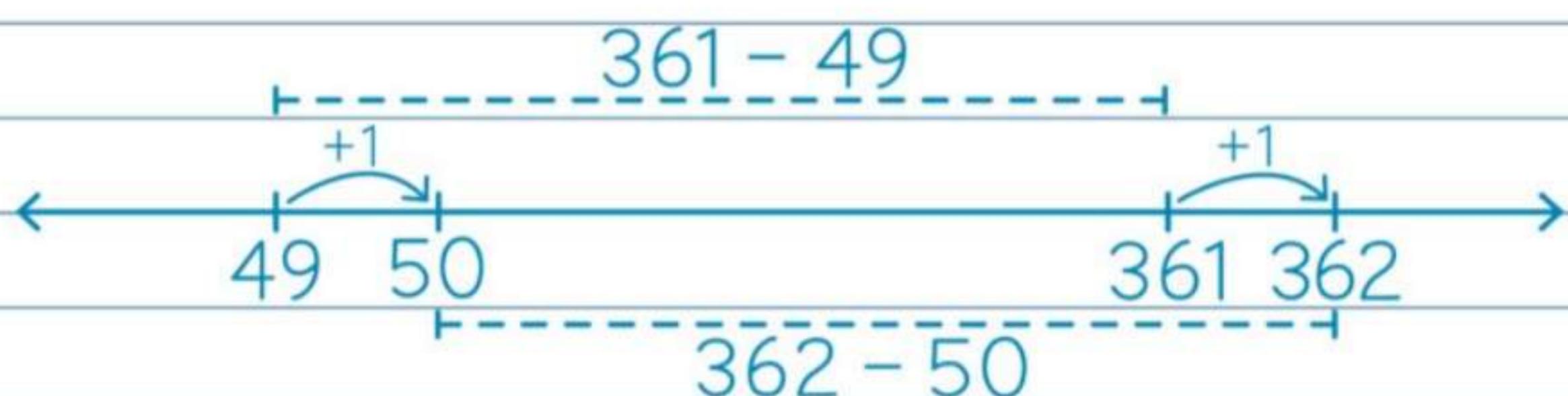
3. Subtract, then Add

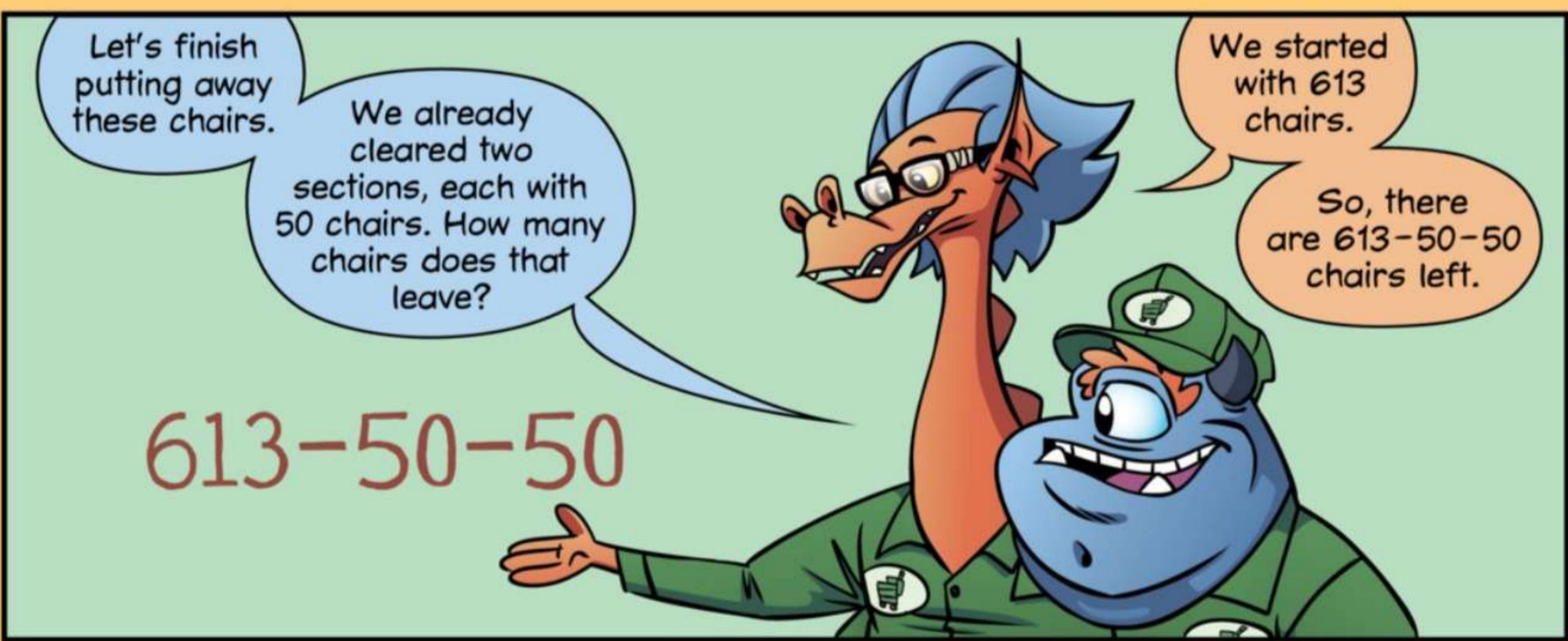
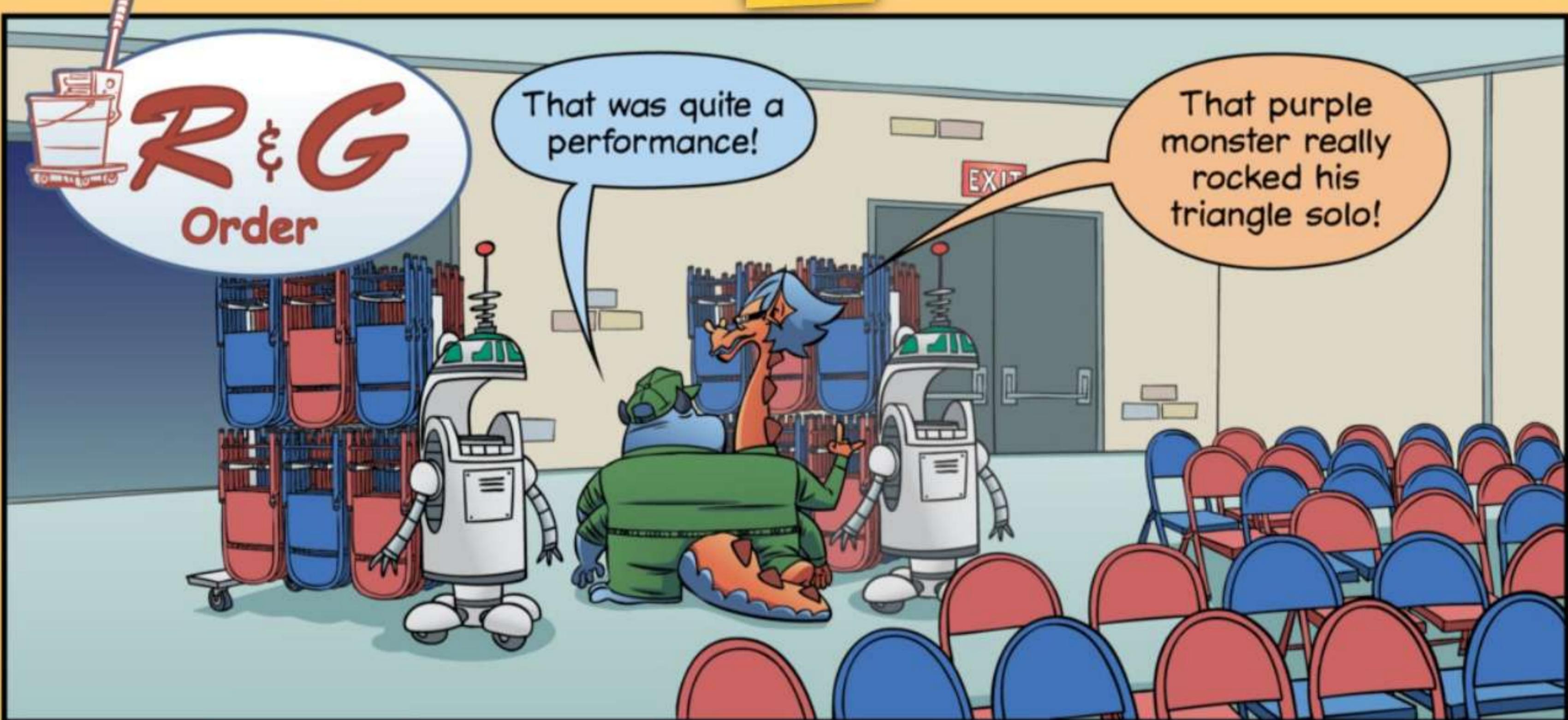
$$424 - 96 = 424 - 100 + 4 = 328$$



4. NEW! Shift the Difference

$$361 - 49 = 362 - 50 = 312$$





We can **add** numbers in any order that we want.

Subtraction doesn't work that way.

For example, 5-3 and 3-5 are **not** the same.

$$5-3=2$$

$$3-5=$$

5-3 is 2, but we can't take away 5 from 3.

SUBTRACTING 3-5 GIVES A NEGATIVE NUMBER. YOU'LL LEARN ABOUT NEGATIVES IN BEAST ACADEMY 4C.

Right. To subtract, you begin with the first number...

...and take away any number that comes after a subtraction sign.

You'll always get the correct answer if you work from left to right.



So, to subtract $613-50-50$, we start by taking away 50 from 613 to get 563.

Then, we subtract 50 more to get $563-50=513$.

Yep. But, there's an easier way to solve $613-50-50$.

$$\begin{aligned} 613-50-50 \\ &= 563-50 \\ &= 513 \end{aligned}$$

Can you find an easier way?

