

# Contents: Chapter 5

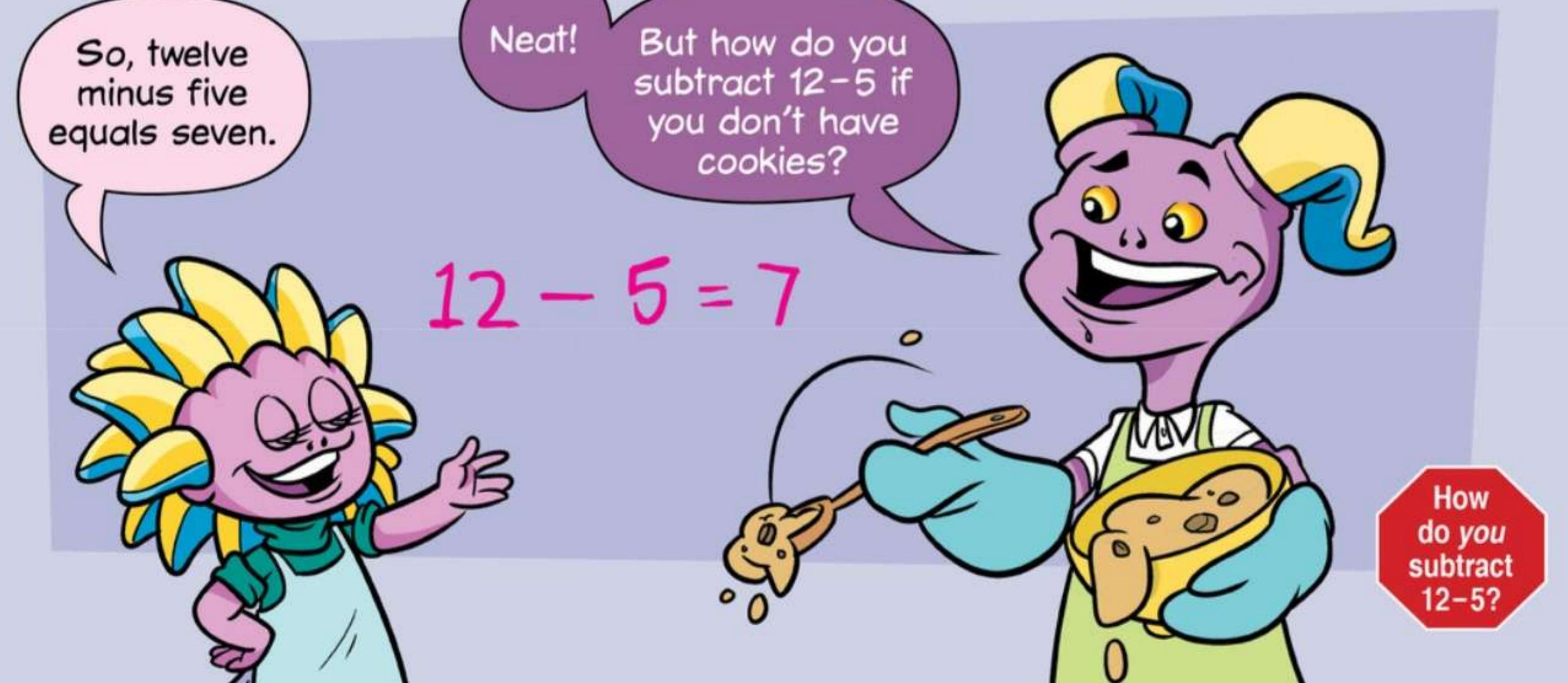
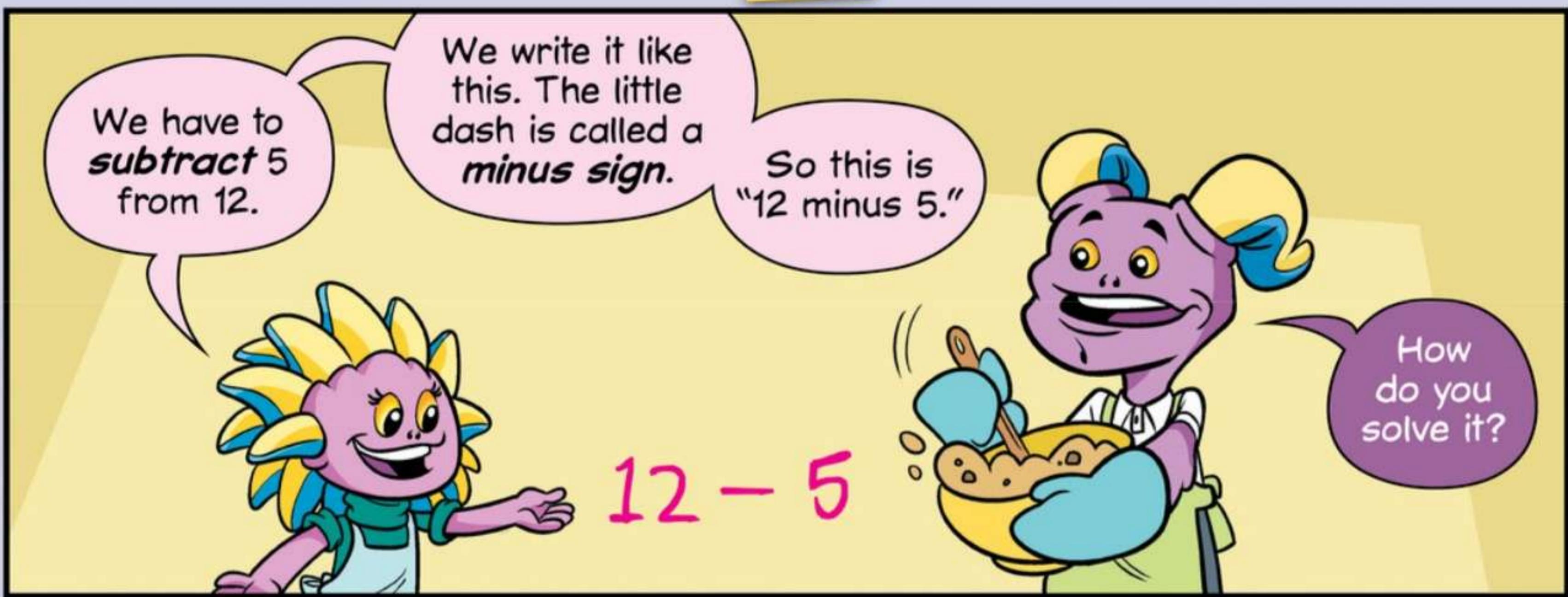
	<b>Taking Away</b> How many are left if you take away 6 from 41?	84
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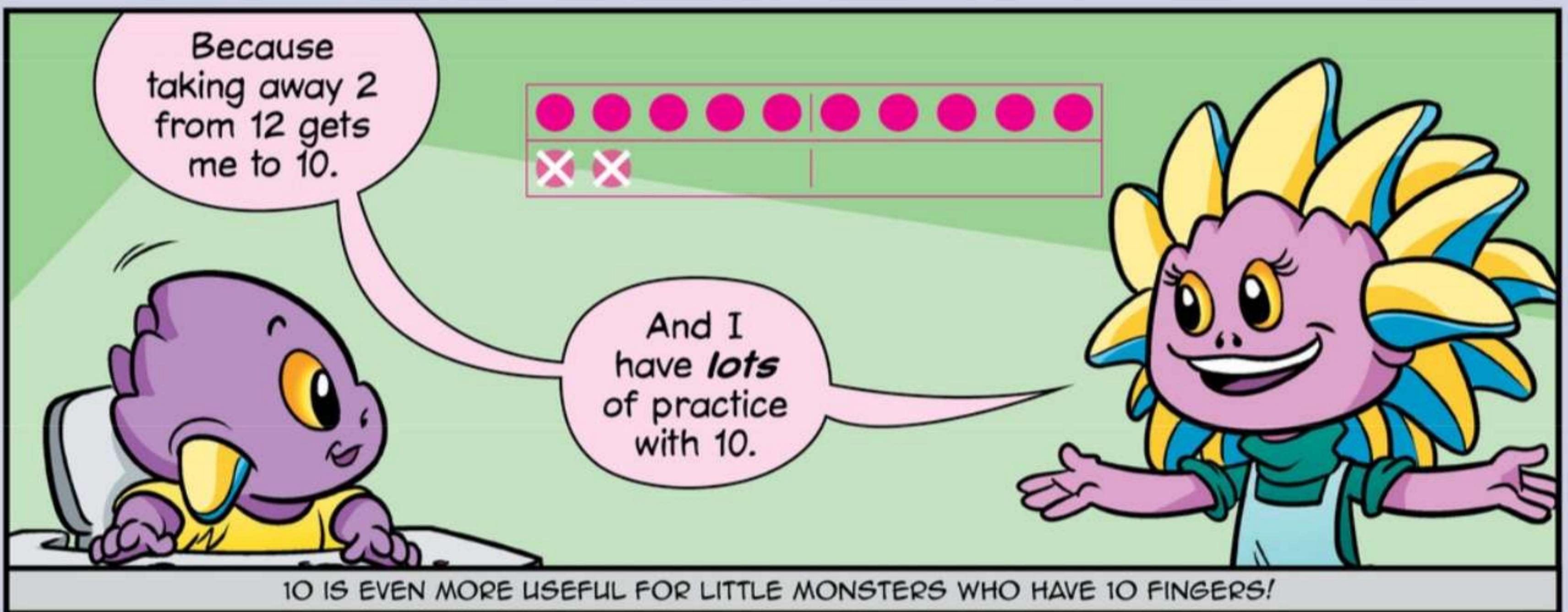
# Chapter 5:

## Subtraction

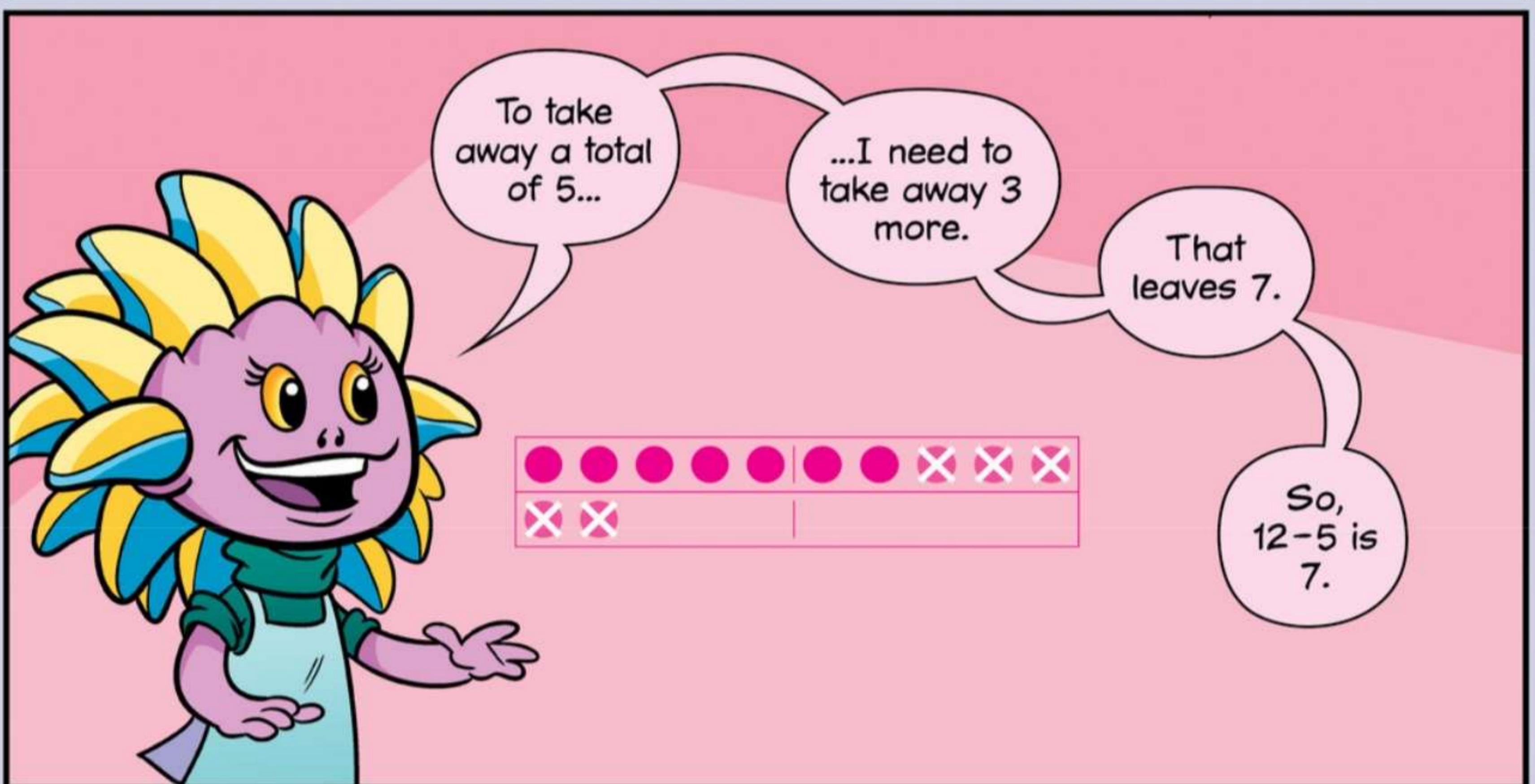


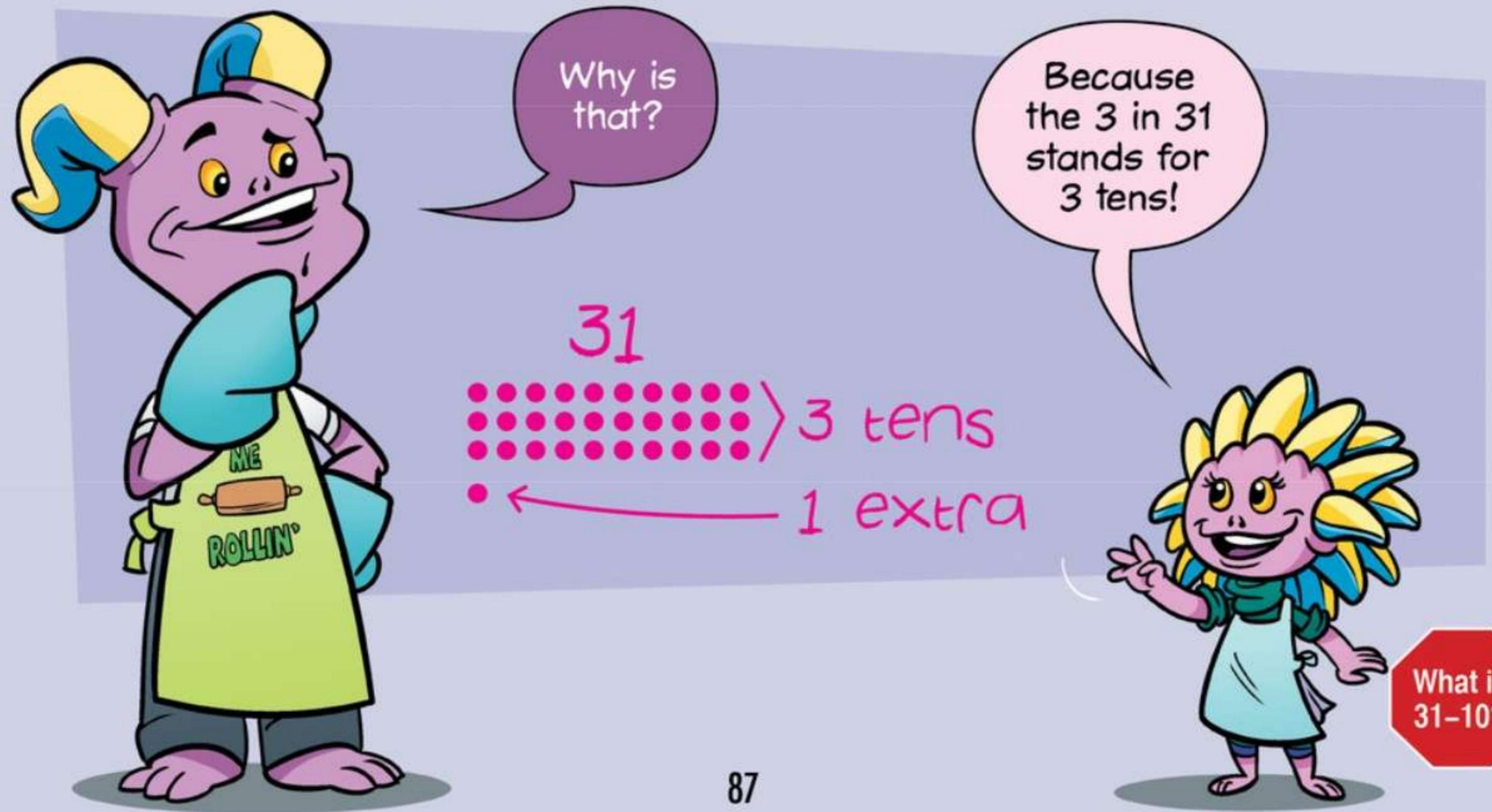


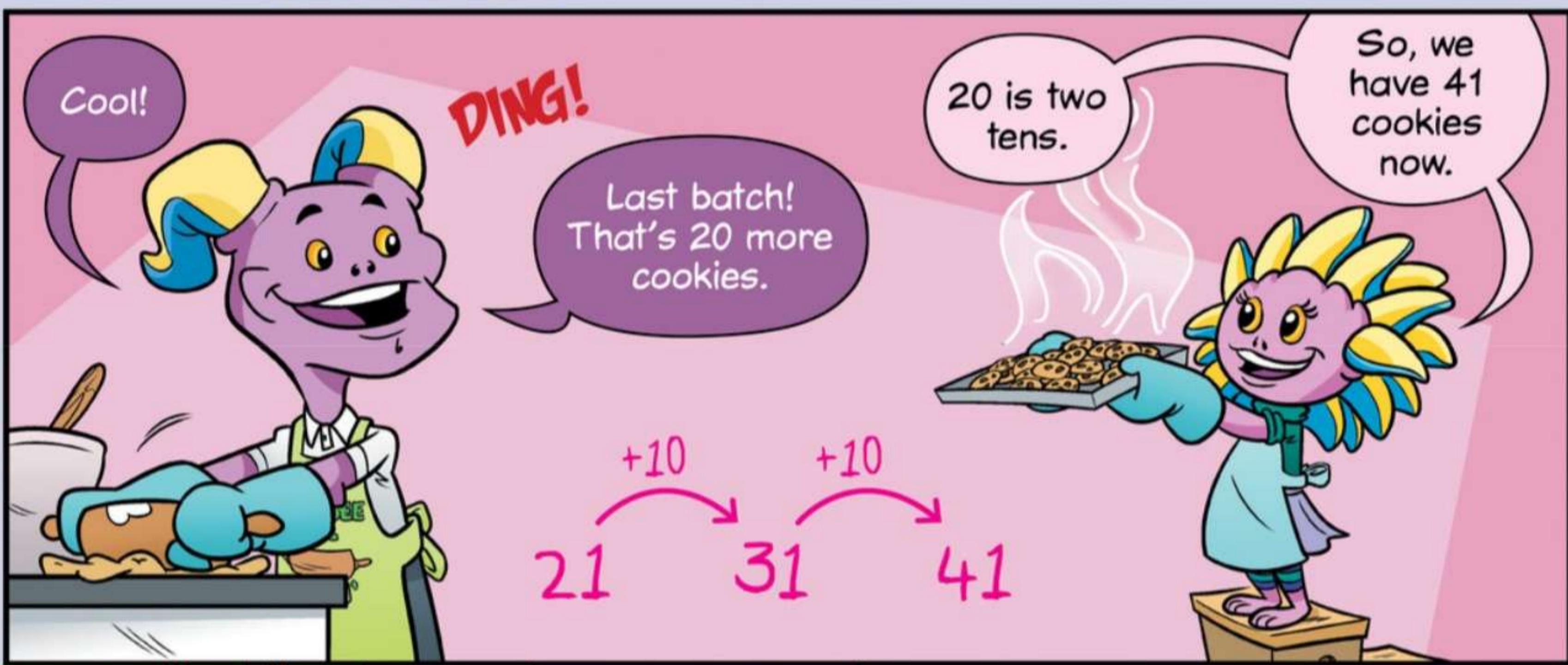
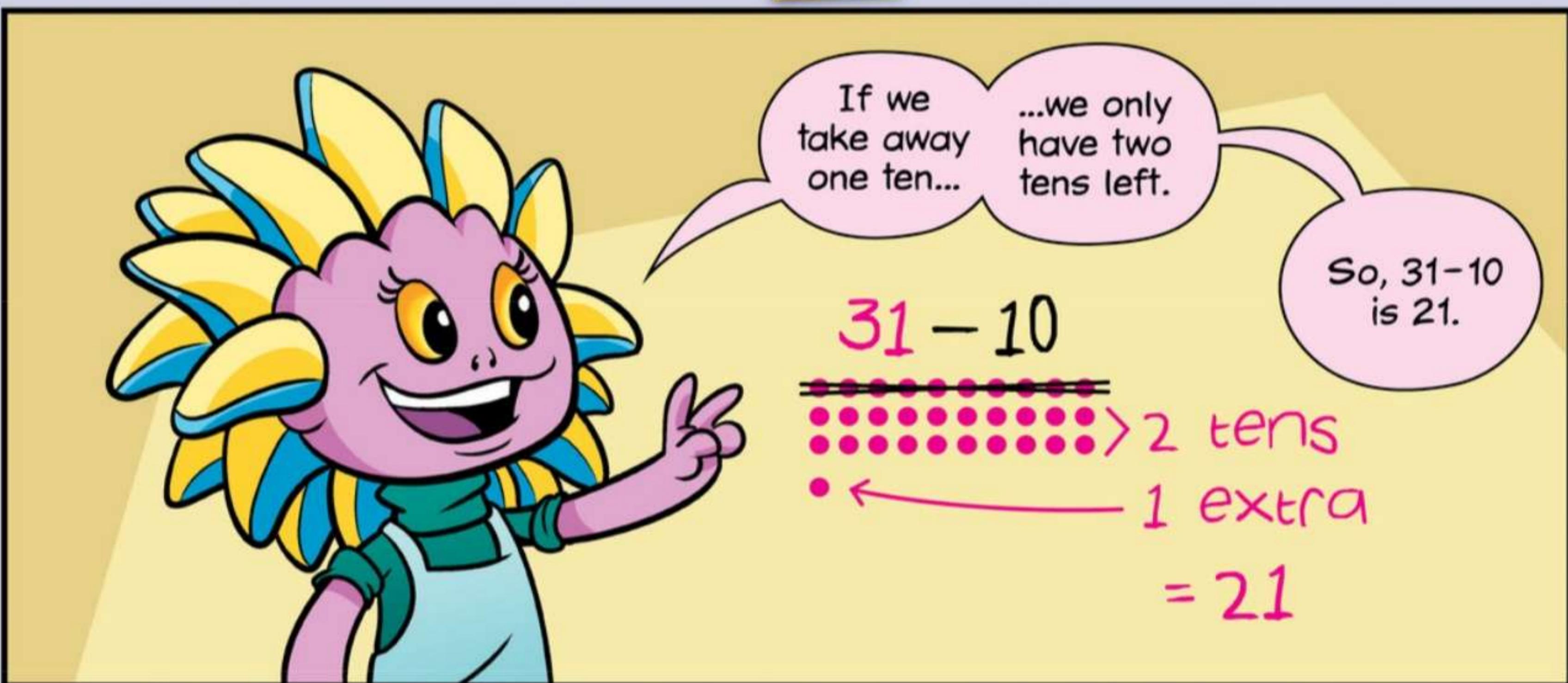




10 IS EVEN MORE USEFUL FOR LITTLE MONSTERS WHO HAVE 10 FINGERS!







$$\begin{array}{ccc} 21 & \xrightarrow{+10} & 31 & \xrightarrow{+10} & 41 \end{array}$$



I count down on my fingers.

Each time I take one away, I hold up a finger.

I stop when I have 6 fingers up.

41 minus 6 is...



40...

$$41 - 1 = 40$$



...39...

$$41 - 2 = 39$$



...38...

$$41 - 3 = 38$$



...37...

$$41 - 4 = 37$$



...36...

$$41 - 5 = 36$$



...35!

$$41 - 6 = 35$$

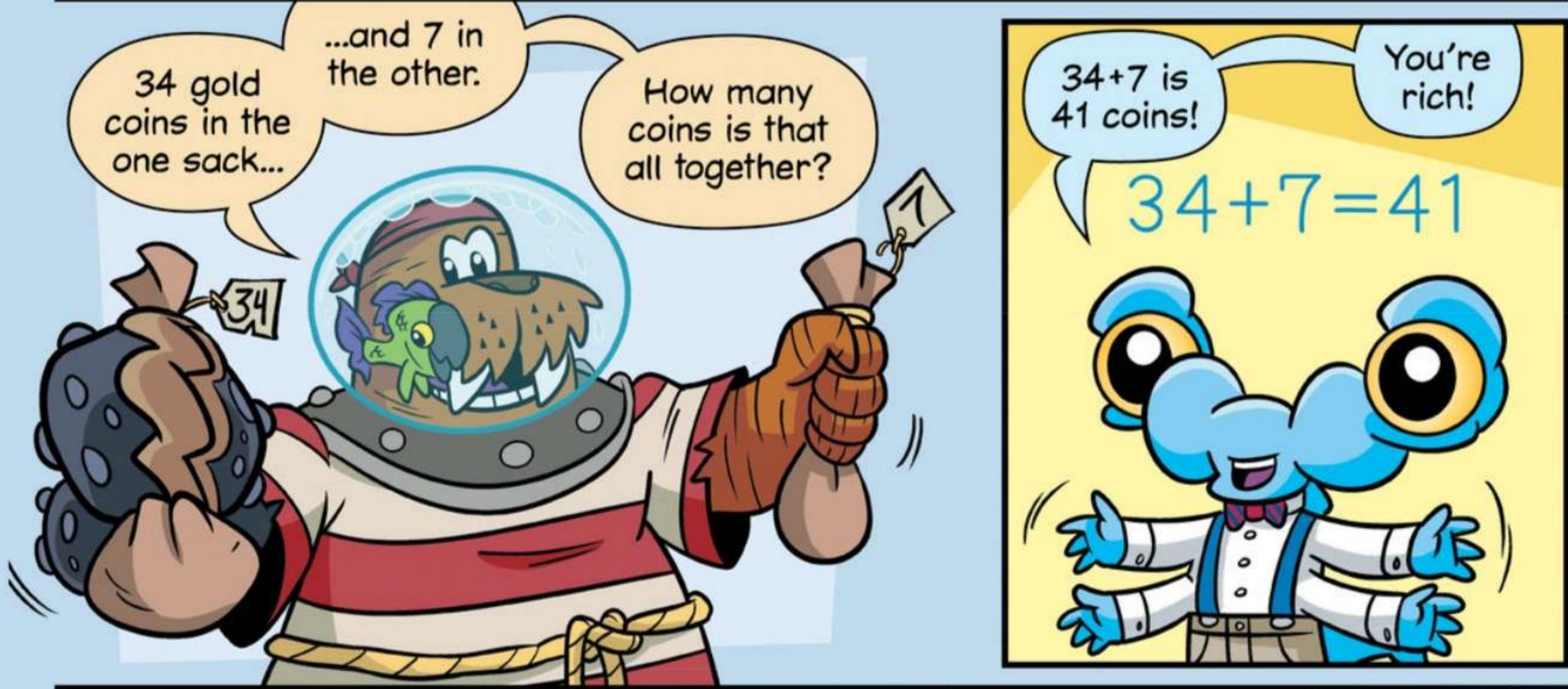
YOU COULD ALSO START BY HOLDING SIX FINGERS UP.  
THEN, EACH STEP YOU COUNT DOWN, FOLD DOWN A FINGER UNTIL YOU'VE SUBTRACTED SIX.

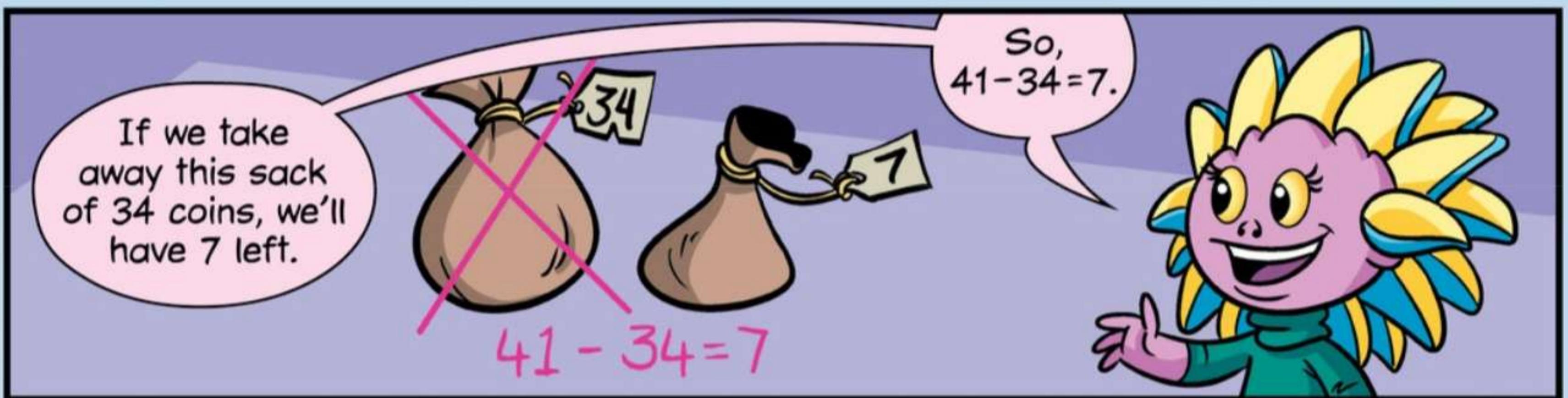
That's right!

You are one smart cookie!

I am what I eat!







We add 4 to get from 49 to 53.

That one is easy.

But 49 is a lot to take away.

I don't have enough fingers and toes for that.

$$49 + \boxed{4} = 53$$

$$53 - 49 = \boxed{\phantom{0}}$$

Use the addition!

$$49 + 4 = 53$$

total coins

Imagine 49+4 as two chests of coins.

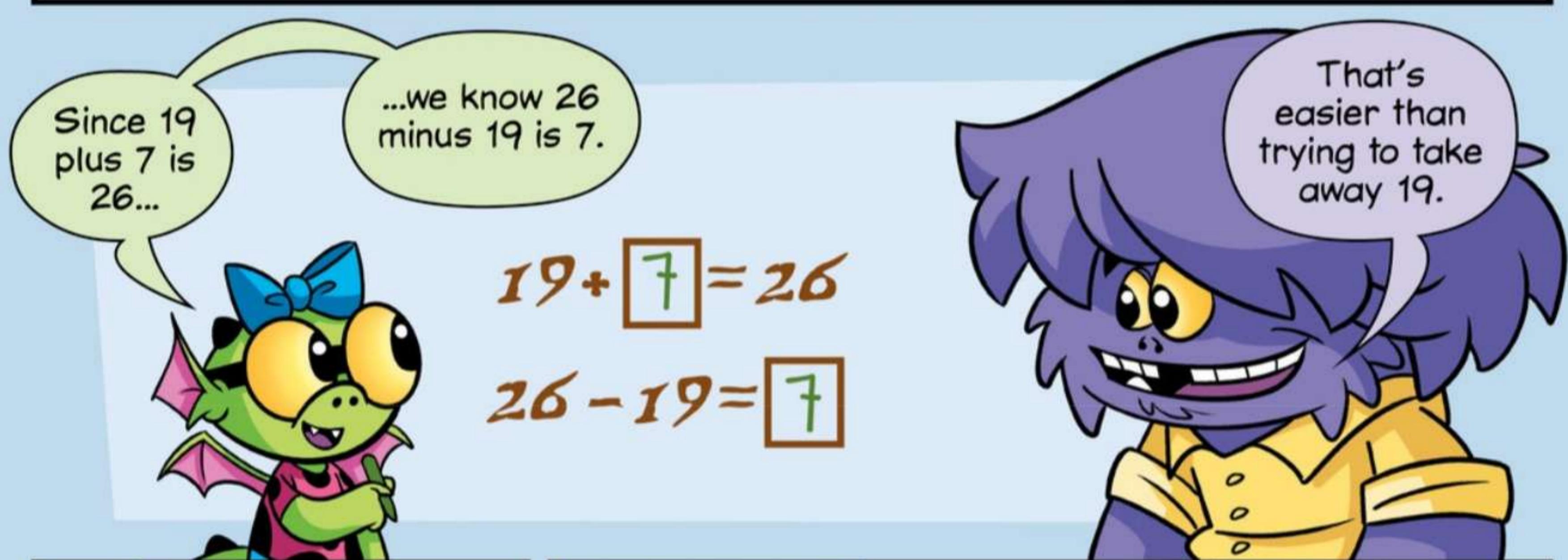
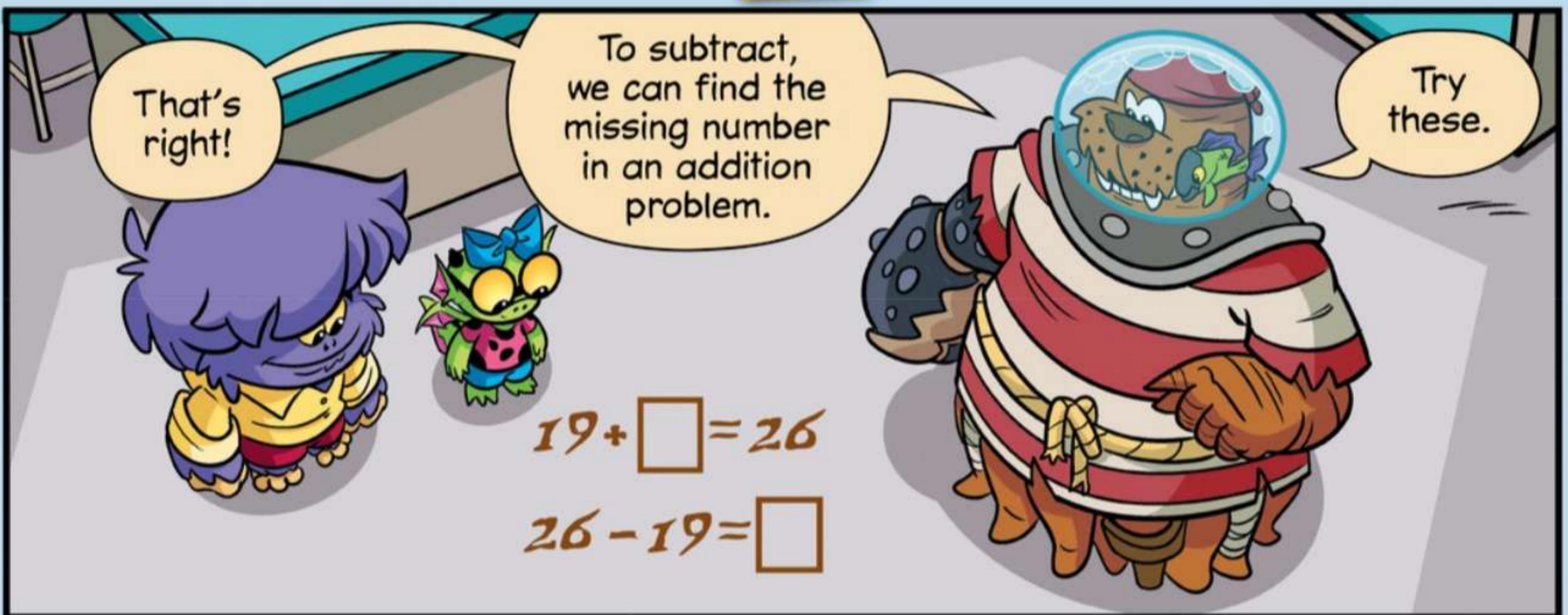
That's 53 total coins.

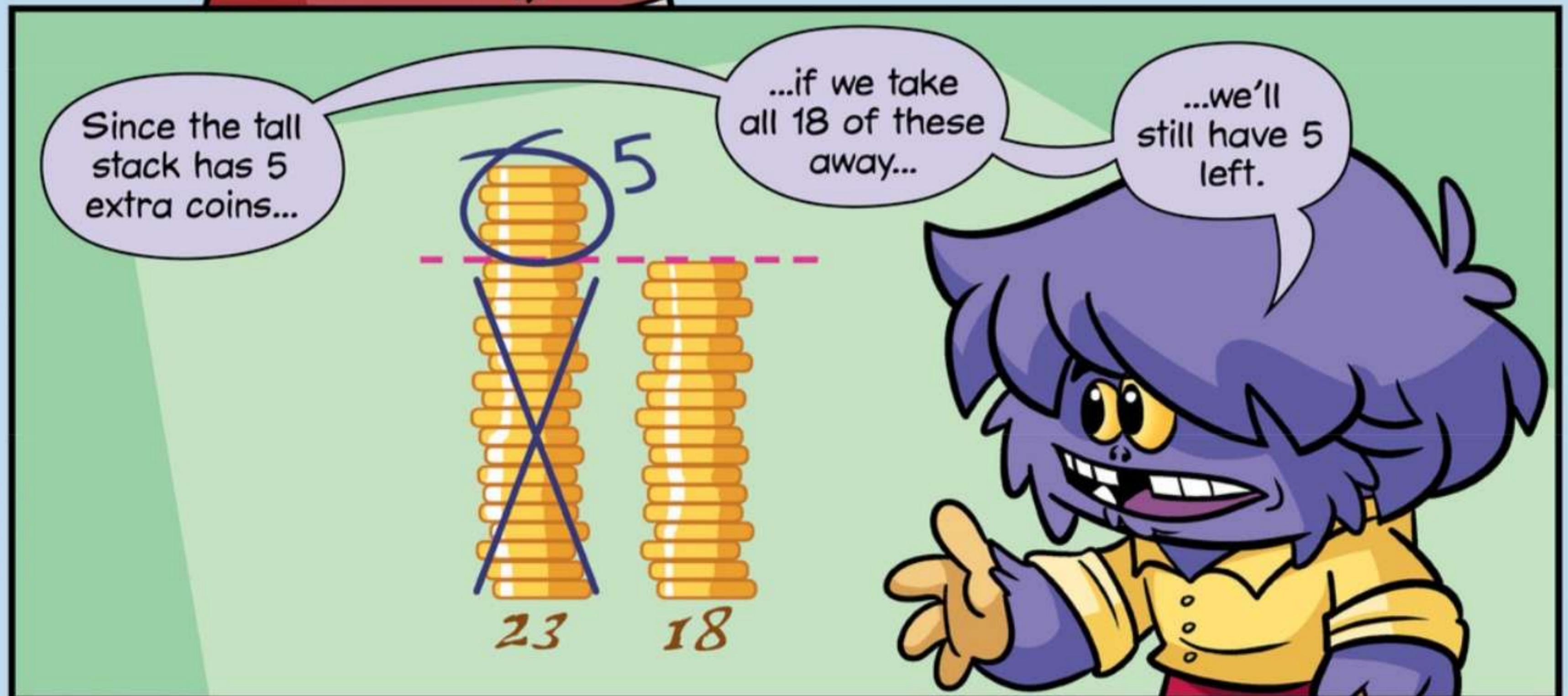
I see! If we take away the big chest of 49 coins...

$$53 - 49 = \boxed{4}$$

...we'll have the small chest of 4 coins left.

So, 53-49 is 4.





Excellent!

When we subtract,  
we find out how much  
bigger one number is  
than the other.

It's called their  
*difference*.



Here,  
we're finding  
the difference  
between 23 coins  
and 18 coins.



Since 23  
is 5 more  
than 18...

... $23 - 18$   
is 5.

Aye.

Sometimes it's  
easiest to think of  
subtraction as a  
difference.

Other times  
it's easier to  
take away.

How would  
you solve each  
of these?

$$74 - 71$$

$$58 - 48$$

$$32 - 6$$

Try all  
three.



For 74–71,  
I found their  
difference.

74 is 3 more  
than 71.

So,  
74–71  
is 3.

$$74 - 71 = 3$$

I used  
addition to  
solve this  
one.

$$\begin{aligned} 48 + 10 &= 58 \\ 58 - 48 &= 10 \end{aligned}$$

48+10 is 58, so  
58–48 is 10.

I counted down  
to take away  
6 from 32.

31, 30,  
29, 28,  
27,

26.

32–6  
is 26.

$$32 - 6 = 26$$

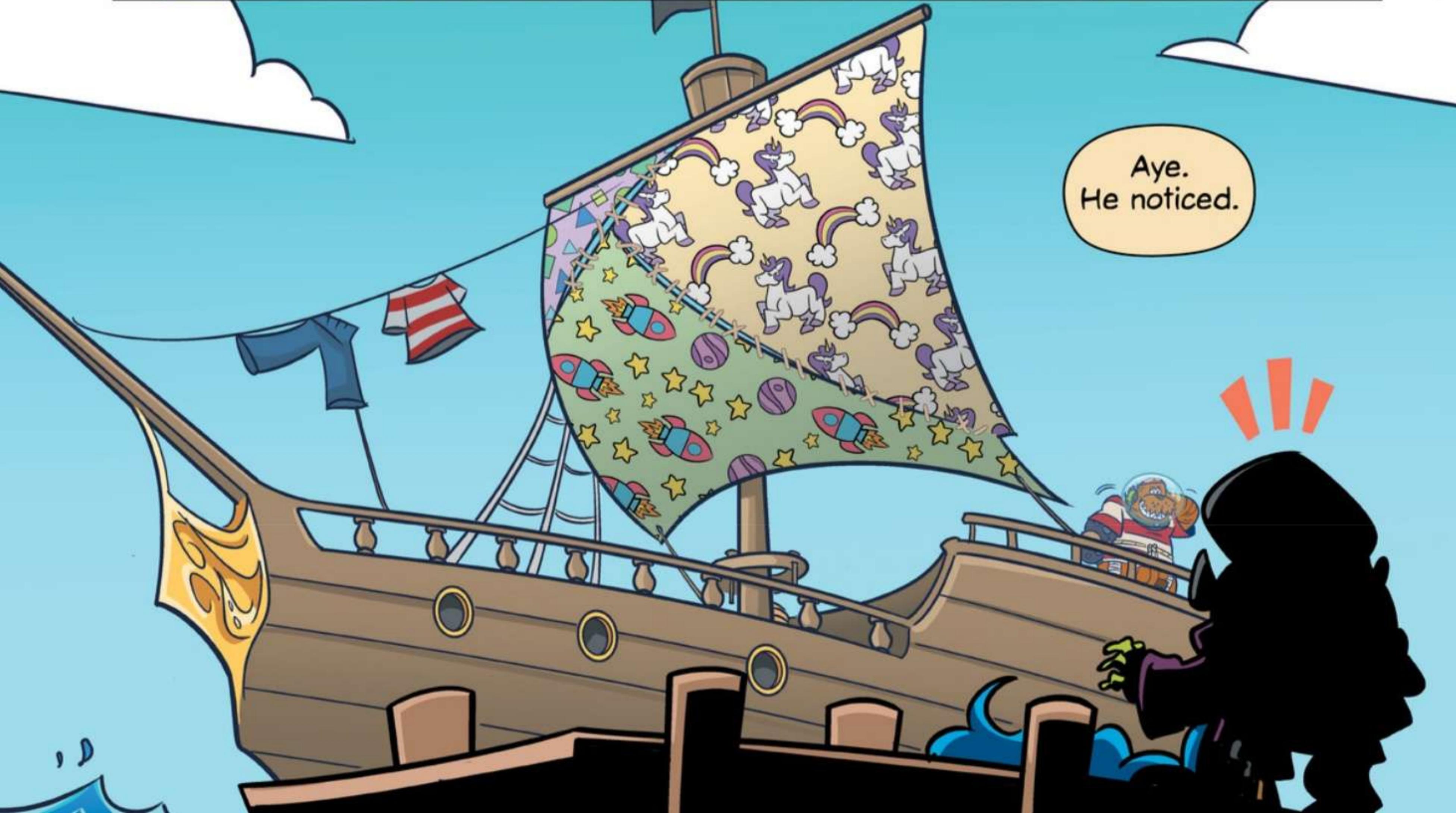
And we  
can check  
our answer  
by adding.

26+6 is 32, so  
Winnie's answer  
is right.

$$32 - 6 = 26$$

$$26 + 6 = 32$$





# MATH CLUB STRATEGIES

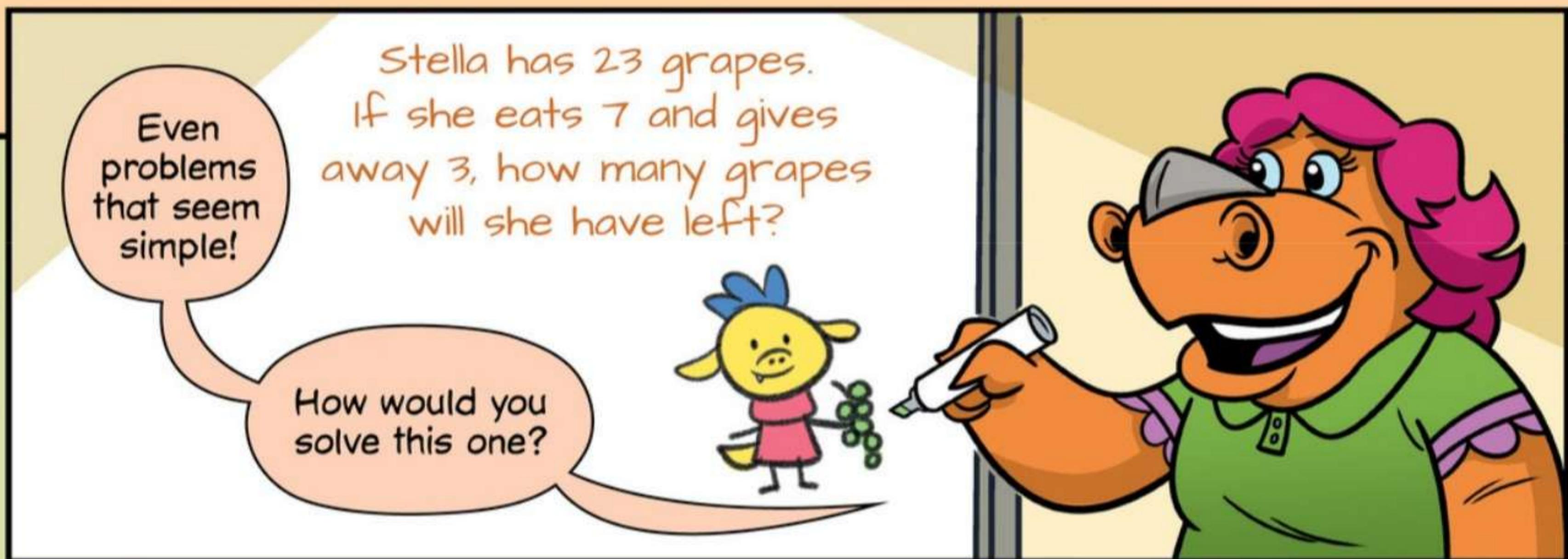
Welcome back  
to Math Club, little  
monsters!

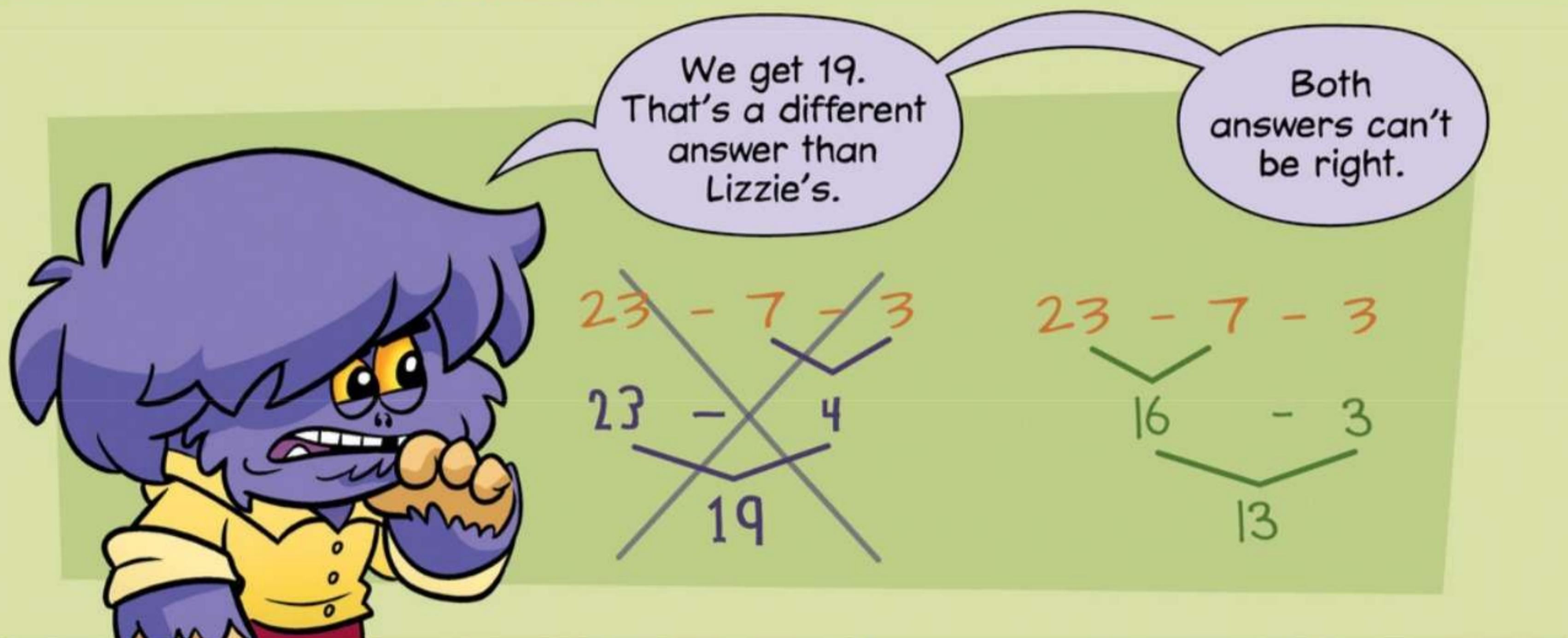
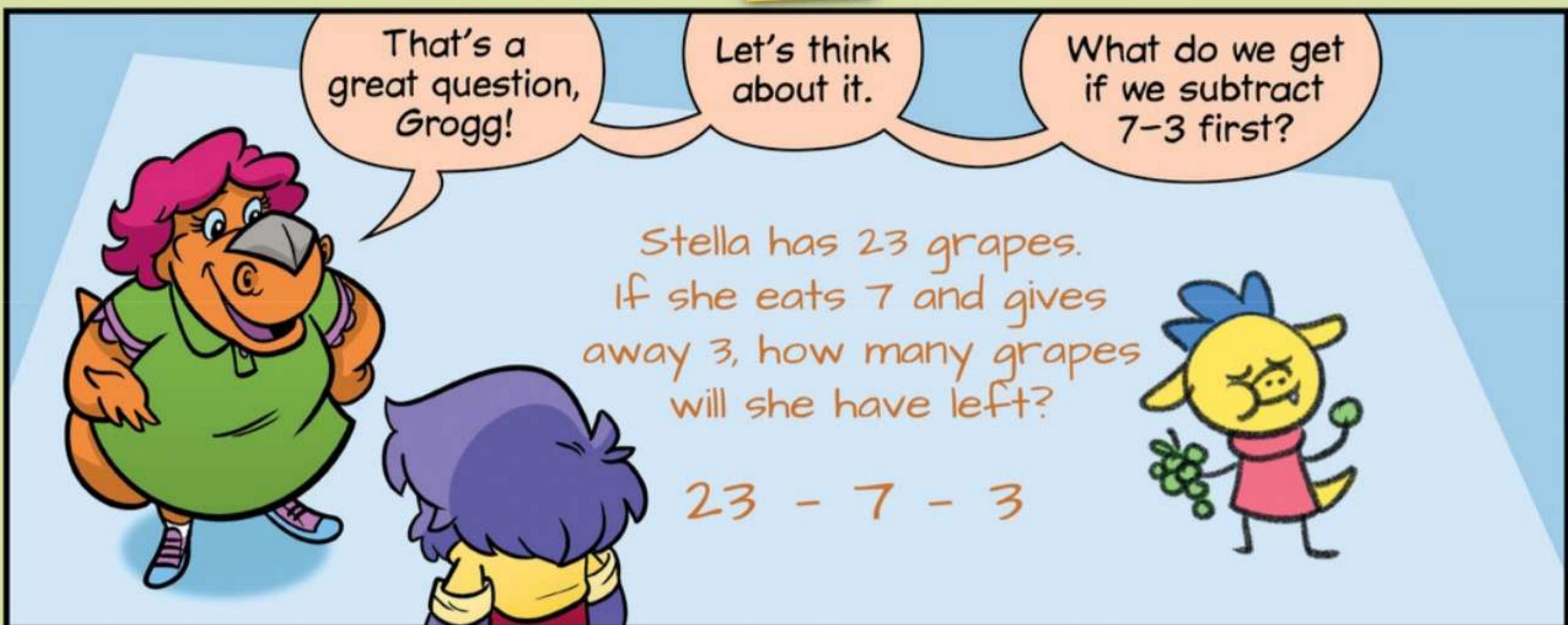
Ms. Levans, did  
you really invent  
sign language  
speaker gloves?



The hard part  
was getting the  
gloves to fit all  
different types  
of hands.







In the problem, Stella starts with 23 grapes. She eats 7, and gives 3 away.

It doesn't make sense to take away 3 grapes from the 7 grapes Stella eats.



Stella has 23 grapes. If she eats 7 and gives away 3, how many grapes will she have left?



That's right!

$$23 - 7 - 3$$

When we subtract, we can always get the right answer working from left to right.

But sometimes, there is a better way.

We can't subtract 7-3 first.

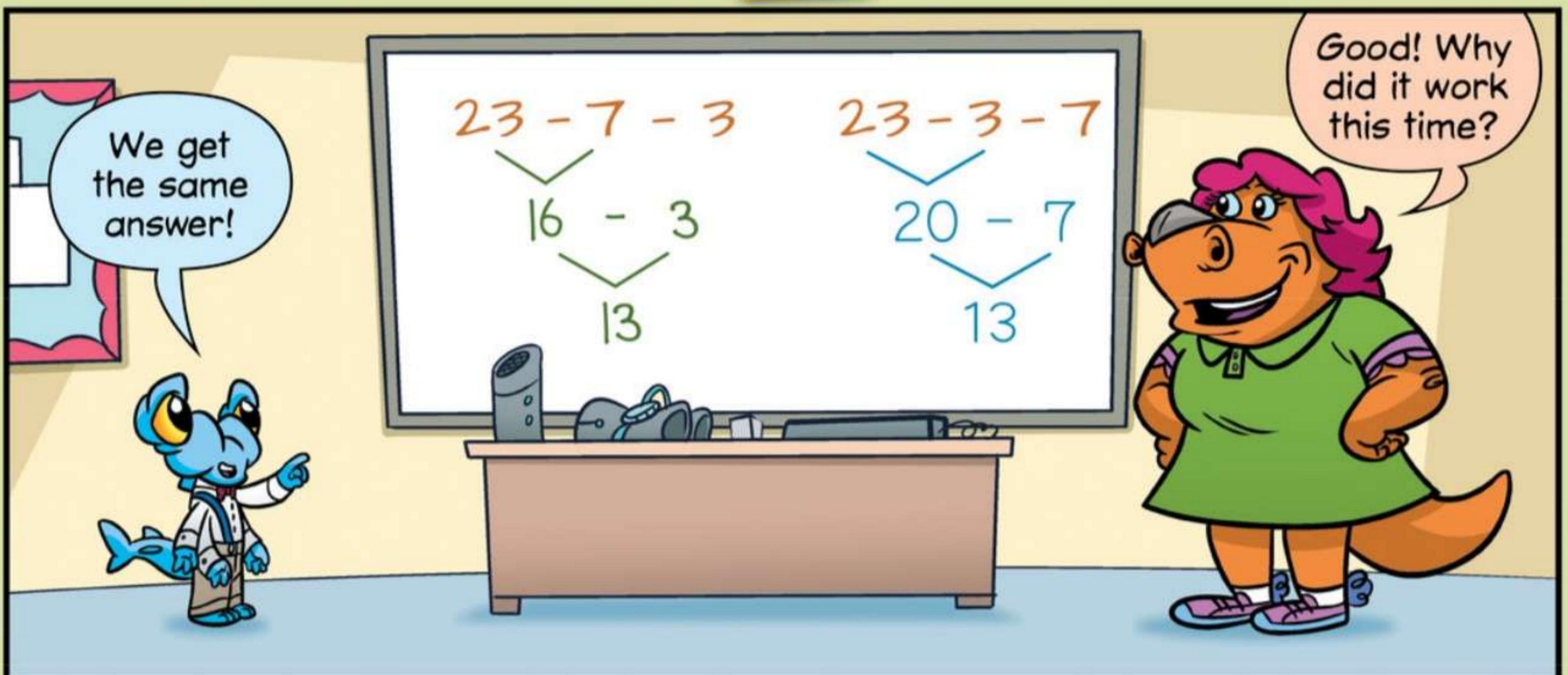
What about subtracting the 3 first, then the 7?

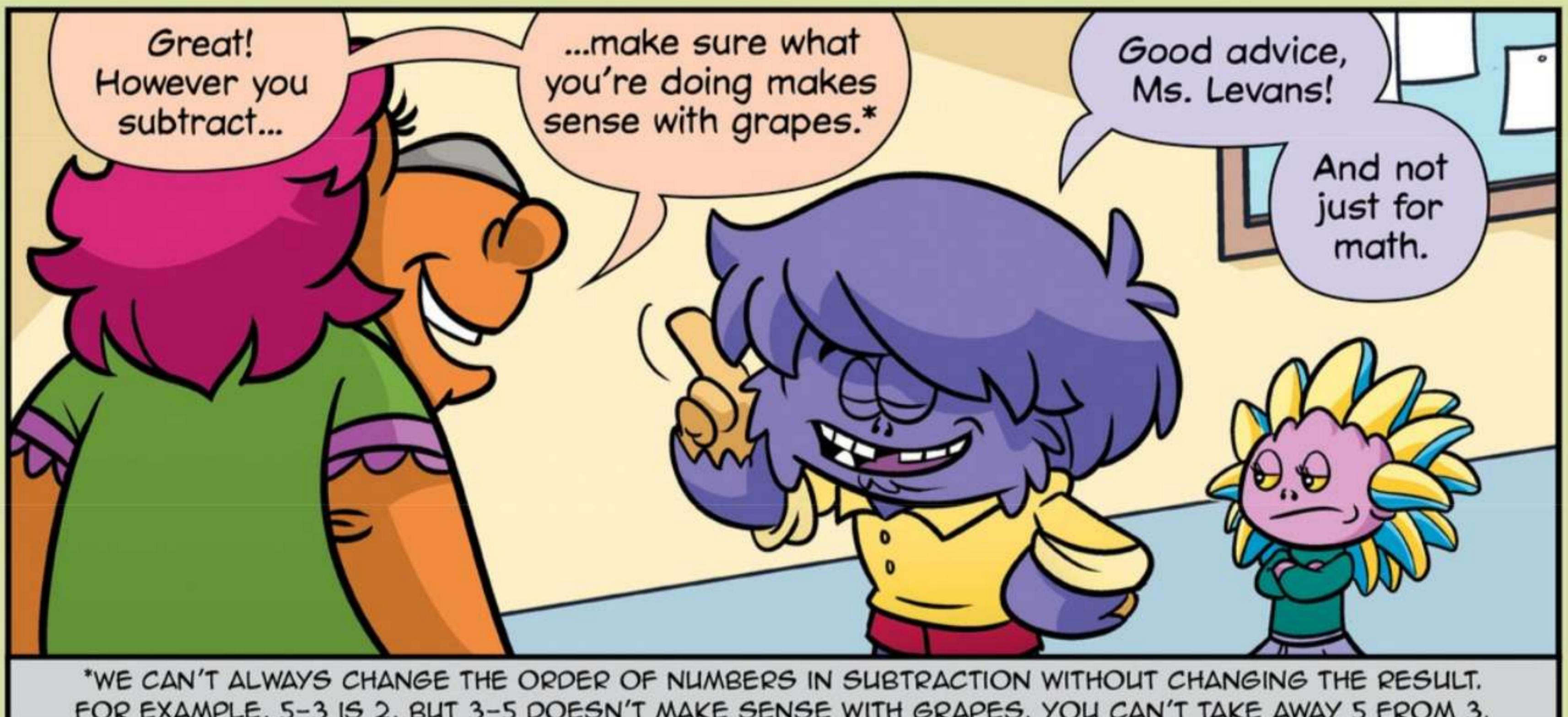
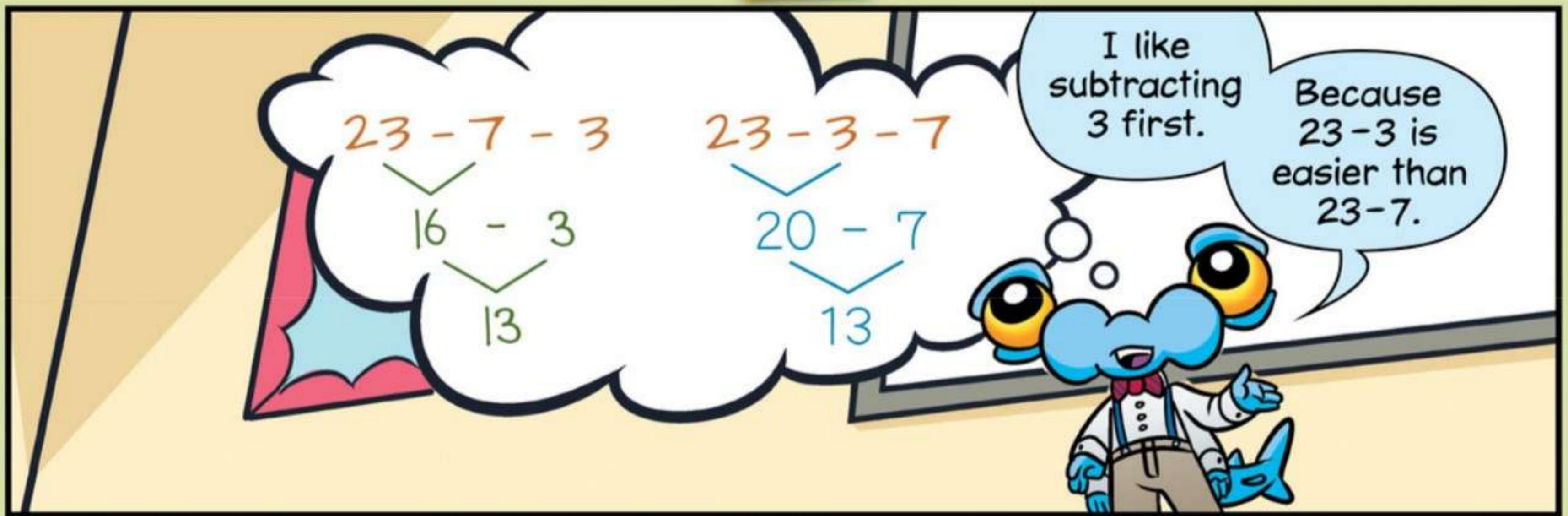
Will that give us the same answer Lizzie got?

$$\begin{array}{r} 23 - 7 - 3 \\ \swarrow \quad \searrow \\ 16 - 3 \\ \swarrow \quad \searrow \\ 13 \end{array}$$

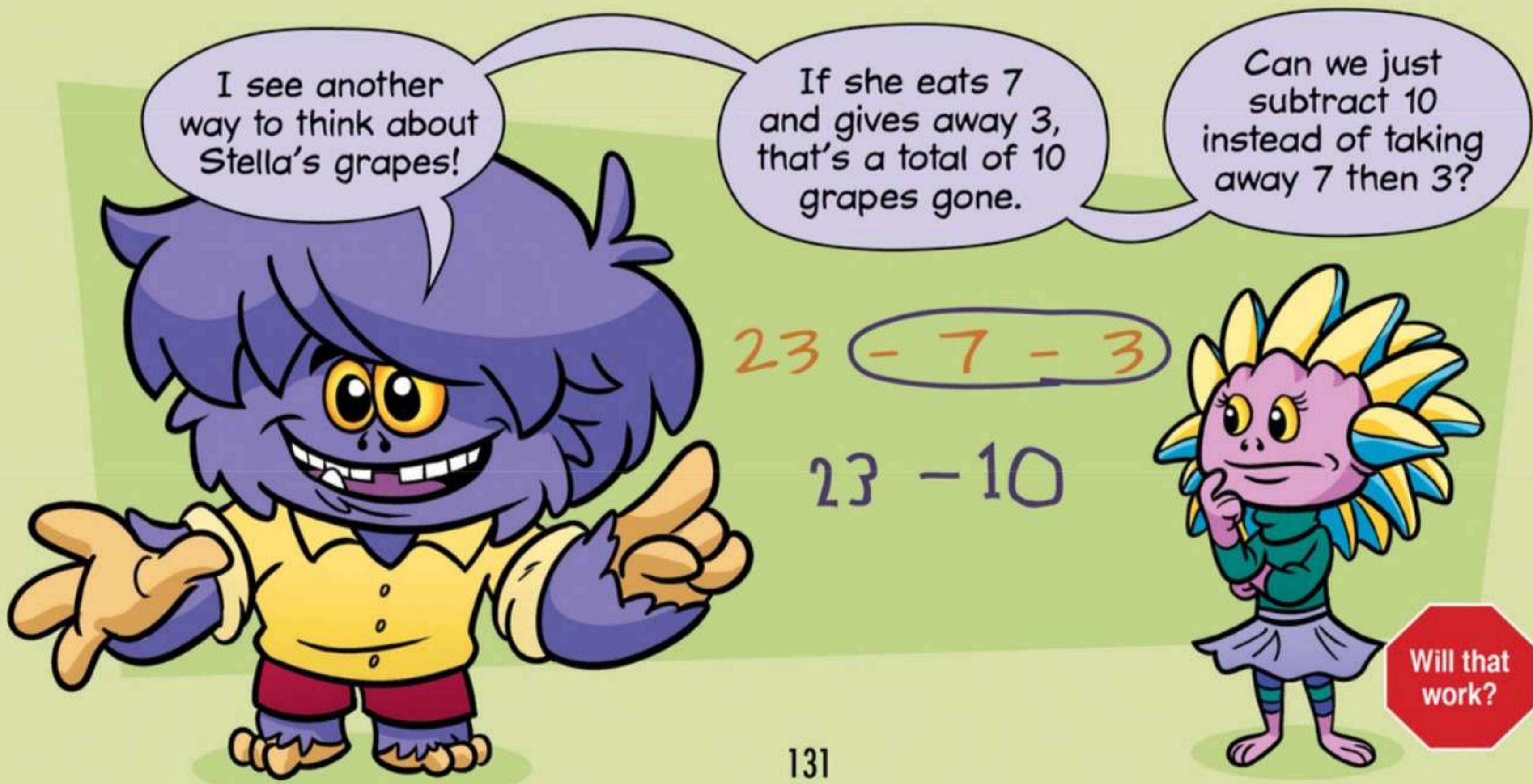
$$23 - 3 - 7$$







\*WE CAN'T ALWAYS CHANGE THE ORDER OF NUMBERS IN SUBTRACTION WITHOUT CHANGING THE RESULT. FOR EXAMPLE, 5-3 IS 2, BUT 3-5 DOESN'T MAKE SENSE WITH GRAPES. YOU CAN'T TAKE AWAY 5 FROM 3.



Does it make sense with grapes?

Yep! A total of 10 grapes are gone.

And I get the same answer as Lizzie and Alex.

$$23 - 7 - 3$$

$$\begin{array}{r} 23 - 10 \\ \hline 13 \end{array}$$

Wonderful, Grogg!

$$\begin{array}{r} 23 - 7 - 3 \\ \swarrow \quad \searrow \\ 16 - 3 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 23 - 3 - 7 \\ \swarrow \quad \searrow \\ 20 - 7 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 23 - 7 - 3 \\ \swarrow \quad \searrow \\ 23 - 10 \\ \hline 13 \end{array}$$

Taking away 7 then 3...

...is the same as taking away 3 then 7...

...which is the same as taking away 10 total.

All three ways give us 13.

Right!  
As long as what you're doing makes sense, you'll get the right answer.



