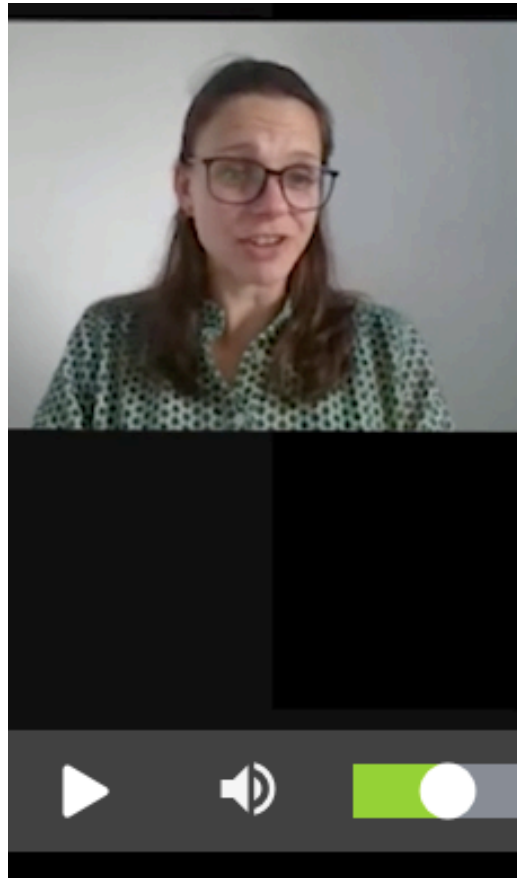# Maths Lesson Year 3

Write your date and title in your book

10.2.21

Can I solve 3 digit subtraction calculations?

This is Miss Brinkworth.

She is going to remind you how to do column <u>subtraction</u> in a video.

Click on this video link to watch her lesson.
Pause the lesson whenever you need to.

https://classroom.thenational.academy/lessons/subtracting-3-digit-numbers-regrouping-tens-to-ones-cgwk8t?step=2&activity=video

The activities from her lesson are on the following slides:

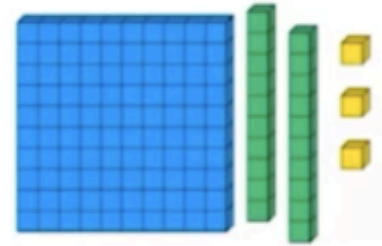If you can't work the video, just do the slides without it.

You can use online dienes using the website shown, draw them or make some using cut up bits of paper/straws/counters/money etc.

🔥 This warm up activity is on the video. 🔥

Warm up Decide which ones you can answer mentally and which need column subtraction

384 − 263	567 − 234
361 − 227	443 − 212
475 − 255	674 − 462

Answers!

Warm up Decide which ones you can answer mentally and which need column subtraction

384 − 263 121	567 − 234 333
361 − 227 134	443 − 212 231
475 − 255 220	674 − 462 212

This calculation needs regrouping.

The rest do not need you to regroup

Which of these is the odd one out and why?

434 | 122 | ?

365 | 253 | □

373 | 246 | ?
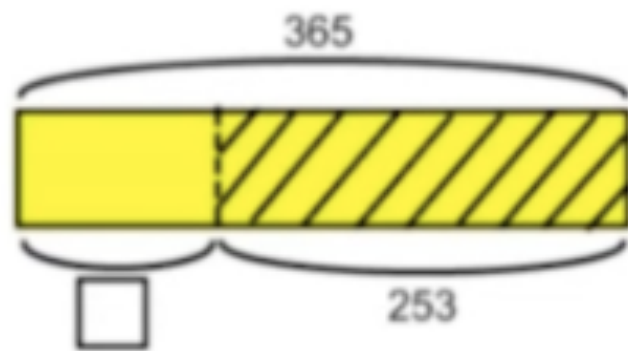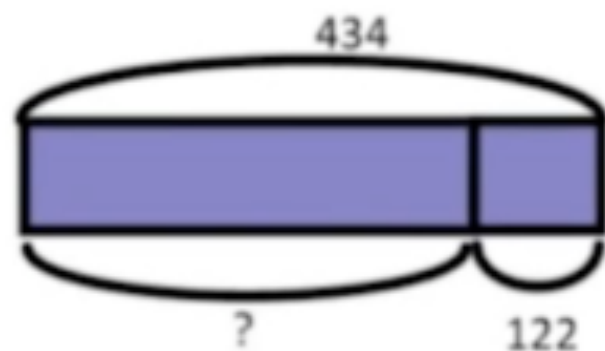
Which of these is the odd one out and why?
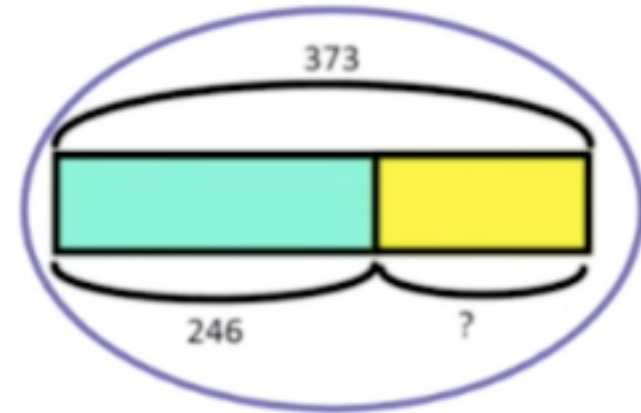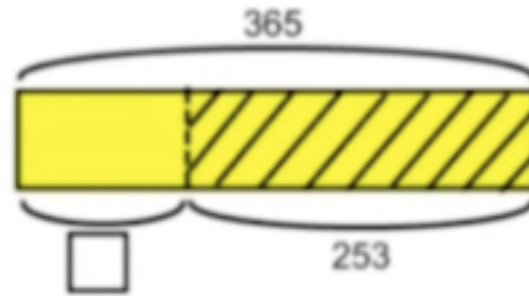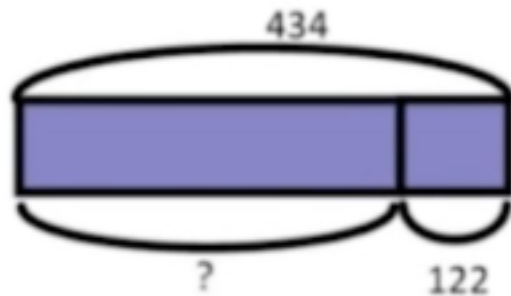
This calculation needs you to regroup.
The other calculations do not need you to regroup.

Try this!

You can use dienes to work out this calculation:

Answer on the next slide.

253 - 1<u>2</u>6
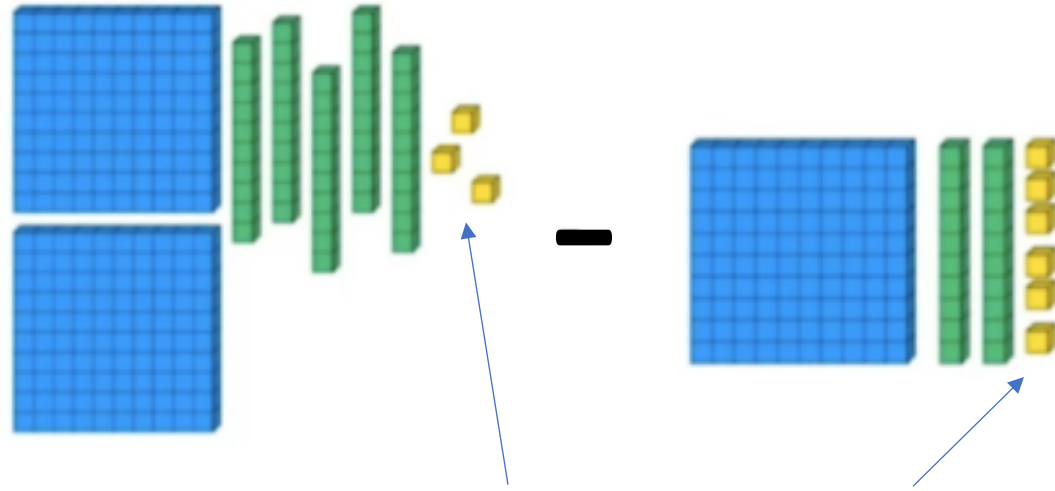
The 3 units is not enough. You can't take 6 units away from 3 units.

So... you have to exchange a ten, for ten units.
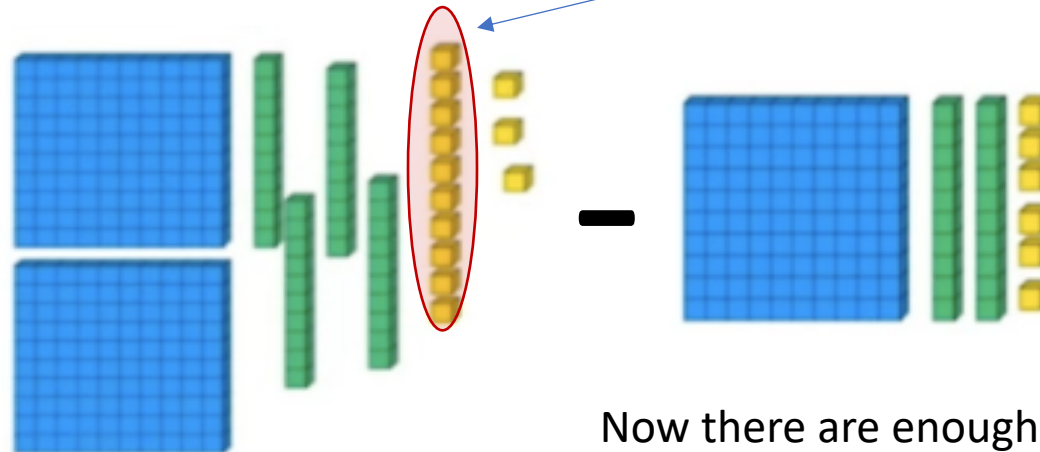
Now there are enough units to do the calculation.

Answer:
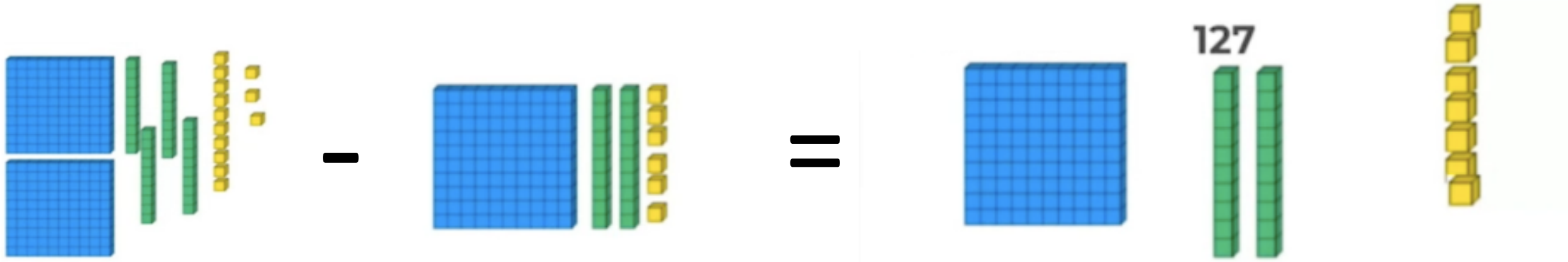
253 - 126 = 127

This is what this calculation looks like when using a written column method.

Column subtraction 253 - 126 =

253 - 126 = 127

-

= ?   ?   ?

Answer:

Column subtraction 253 - 126 =

253 - 126 = 127

Now try this one:

126 ?

343

Column subtraction 343 - 126 =

343 - 126 = 217

-

= ?   ?   ?
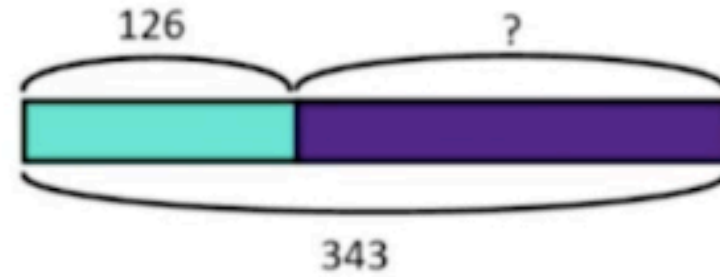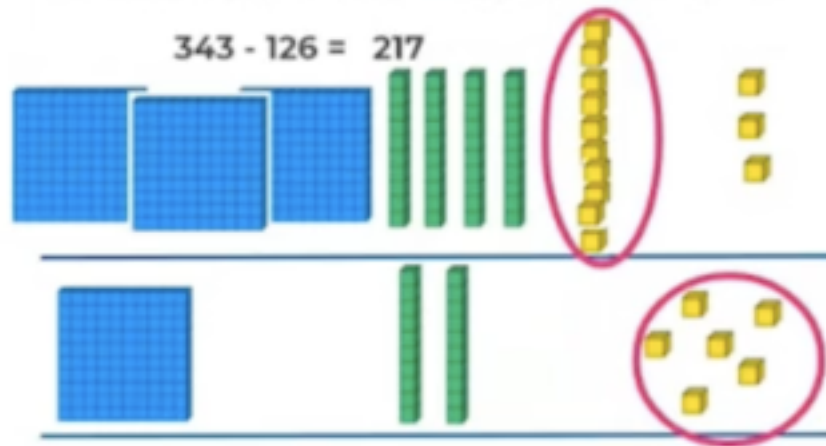
		3	1			
		3	4̶	3		
	-	1	2	6		

Answer on next slide:

Answer:

Column subtraction 343 - 126 =

343 - 126 = 217

$$
\begin{array}{r}
3\ \overset{3}{\cancel{4}}\ \overset{1}{3} \\
-\ 1\ 2\ 6 \\
\hline
2\ 1\ 7
\end{array}
$$
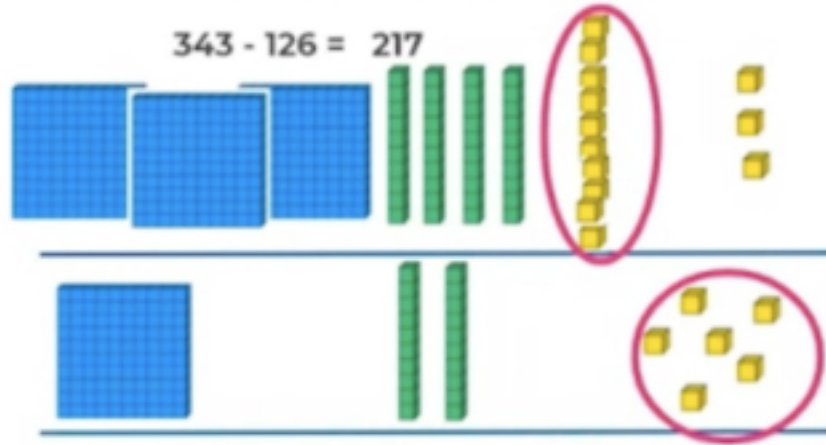
Now try this one:

Your turn 283 - 159 =

You can use dienes if you want to.

```
    2 8 3
  - 1 5 9
```

Don't forget to regroup!

Answer on the next slide:

Answer:

Your turn 283 - 159 =

			7	1				
		2	8̸	3				
	-	1	5	9				
		1	2	4				

Task: Now do these subtraction calculations.

Use either dienes or do a written calculation.

Part A (Not all need column subtraction so look carefully)

452 − 236	368 − 227	553 - 235
354 - 136	572 - 324	354 - 122

Answers on the next slide – no peeking!

Think:

How am I going to set out my work?

It should look like this:

	H	T	U
		1	
	6	~~2~~	¹1
-	1	1	7
	5	0	4

Answers:

Part A (Not all need column subtraction so look carefully)

452 − 236	368 − 227	553 - 235
216	141	318
354 - 136	572 - 324	354 - 122
218	248	232

How did you do?

Now try this:

Part B -

1. What could the missing numbers here be?
2. Check this answer

		9	2	7	
	-	4	1	9	
		5	1	8	

$$\begin{array}{r} \square\ \overset{3}{\cancel{4}}\ \overset{1}{\square} \\ -\ 2\ \square\ 6 \\ \hline 5\ 0\ \square \end{array}$$

Answers:

Part B -

1. What could the missing numbers be in the following subtraction?

```
  7  3  9
-  2  3  7
_____
  5  0  2
```

2. Check this answer.

```
  9  2  7
-  4  1  9
_____
  5  0  8
```

Easier:

Column Subtraction (within 100 no regrouping) 1

Name: Date:

			T	U
			5	2
		-	1	2
			4	0

Subtract the units then subtract the tens

T	U		T	U		T	U
9	3		9	8		6	8
- 8	2		- 8	4		- 4	1

T	U		T	U		T	U		T	U		T	U
4	4		8	9		7	6		6	1		6	8
- 1	2		- 7	0		- 6	6		- 1	0		- 5	6

T	U		T	U		T	U		T	U		T	U
2	5		7	4		5	6		4	1		4	2
- 1	2		- 1	2		- 4	0		- 3	0		- 2	2

T	U		T	U		T	U		T	U		T	U
4	0		8	7		6	5		5	7		2	3
- 1	0		- 3	1		- 4	3		- 4	4		- 1	1

T	U		T	U		T	U		T	U		T	U
6	6		5	6		6	6		6	4		4	9
- 1	5		- 4	2		- 2	2		- 5	3		- 3	3

Harder:

Column Subtraction (2/3-digit regrouping 10s) 1

Name: Date:

		H	T	U
			1	
Move a 'ten' across into the units column if you need to		6	~~2~~	¹1
	-	1	1	7
Subtract the units, then the tens, then the hundreds.		5	0	4

H	T	U		H	T	U
7	9	0		4	5	2
- 4	2	5		- 1	3	7

H	T	U		H	T	U		H	T	U		H	T	U
4	7	3		6	9	1		6	8	2		5	6	0
- 2	4	8		- 2	4	5		- 3	5	7		- 1	3	8

H	T	U		H	T	U		H	T	U		H	T	U
5	9	1		3	9	1		3	1	7		9	5	8
- 3	4	2		- 1	7	4		- 1	0	8		- 3	2	9

H	T	U		H	T	U		H	T	U		H	T	U
7	8	8		2	6	1		4	4	7		2	3	2
- 3	3	9		-	3	5		- 1	2	9		- 1	1	4

H	T	U		H	T	U		H	T	U		H	T	U
9	7	6		2	4	7		4	2	7		8	7	0
- 6	2	8		- 1	2	9		- 1	1	8		- 3	2	6

H	T	U		H	T	U		H	T	U		H	T	U
6	5	8		5	8	0		4	2	2		4	2	3
- 3	1	9		- 2	4	7		- 1	0	6		- 2	1	5

Extra Sheets

Choose the level that is right for you.

How did you do?
We love seeing your work everyone.

Remember to post your work on Class Dojo!