

Maths Lesson

Year 3

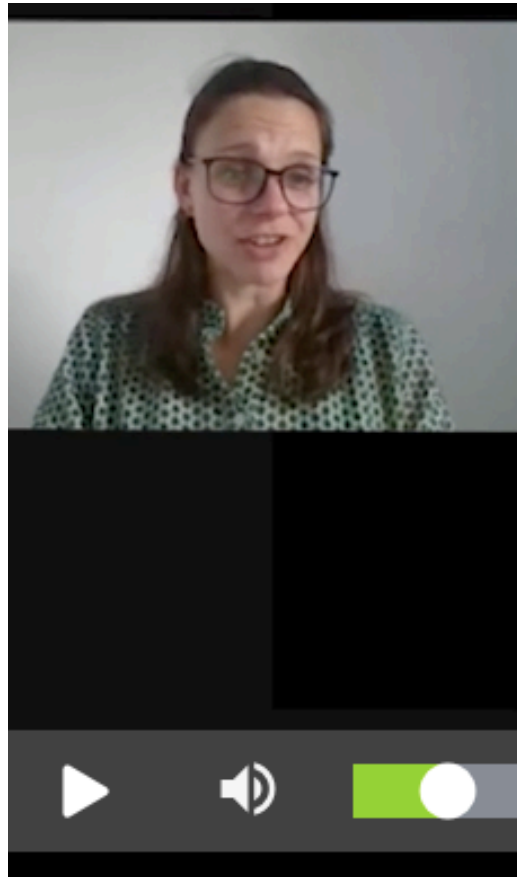
Write your date and
title in your book

9.2.21

Can I solve 3 digit addition calculations?
(Where I have to regroup twice)

This is Miss Brinkworth.

She is going to remind you how to do column addition where you have to regroup twice in a video.



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

<https://classroom.thenational.academy/lessons/adding-two-3-digit-numbers-regrouping-in-multiple-columns-74u3ce?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 will need...



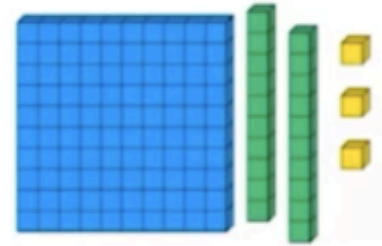
Pencil or pen



Paper



Online Dienes



ask your parent or carer to help you to use this URL
<https://mathsbot.com/manipulatives/blocks>

3



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 addition

$583 + 262 =$

$135 + 224 =$



$435 + 242 =$

$476 + 353 =$



Answer on the next slide – No peeking!

Answers!

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

$583 + 262 = 845$	$135 + 224 = 359$
$435 + 242 = 677$	$476 + 353 = 829$



These two calculations needed regrouping and so needed column addition.

This is tricky!

Which of these is the odd one out and why?

$$134 + 347 =$$

$$176 + 247 =$$

$$372 + 253 =$$

Answer on the next slide:



Answer:

Which of these is the odd one out and why?

$$134 + 347 =$$

$$176 + 247 =$$

$$372 + 253 =$$

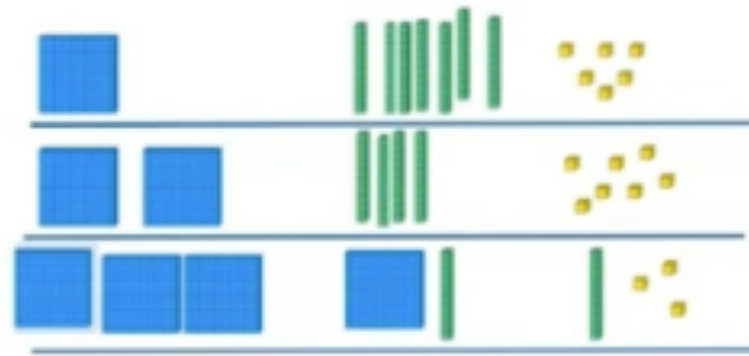


This calculation needed you to regroup twice.

These calculations only need you to regroup once.

Work this out:






Column addition $176 + 247 =$



What should you do about these two columns?

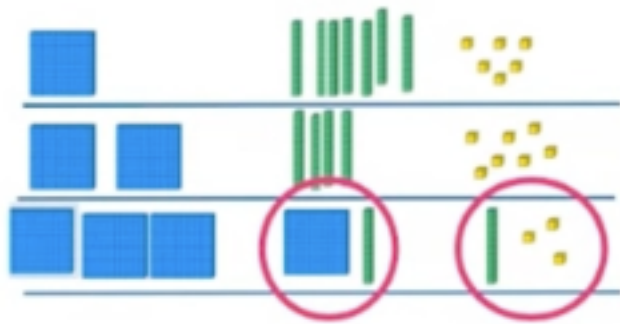
Answer on the next slide.

You can use dienes or the written method.

		1	7	6				
	+	<u>2</u>	<u>4</u>	<u>7</u>				
								
								

Answer: That's right. You need to carry across on those two columns. (The video calls it regrouping)

Column addition $176 + 247 =$

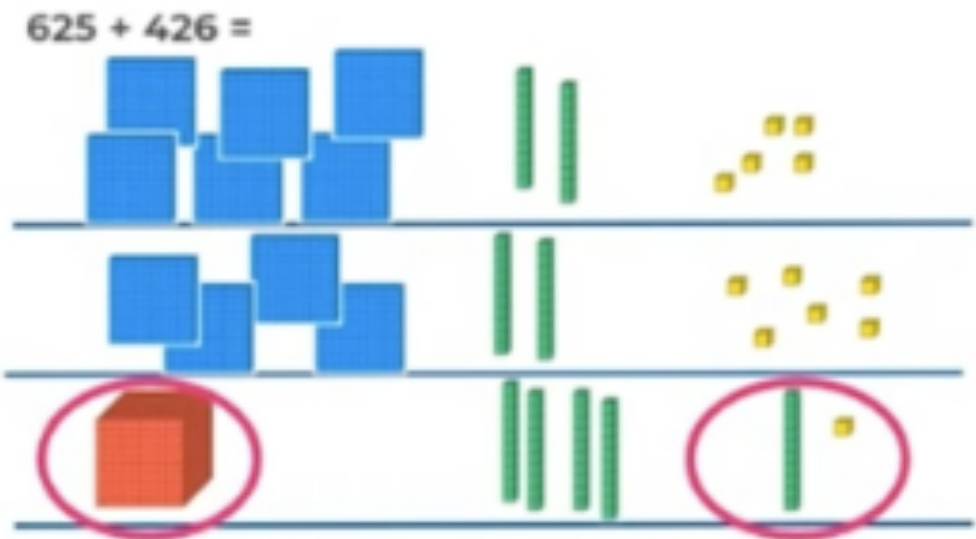


		1	7	6				
	+	<u>2</u>	<u>4</u>	<u>7</u>				
		<u>4</u>	<u>2</u>	<u>3</u>				
		1	1					

Regrouping to the next column.

Now do this one:

Column addition $625 + 426 =$



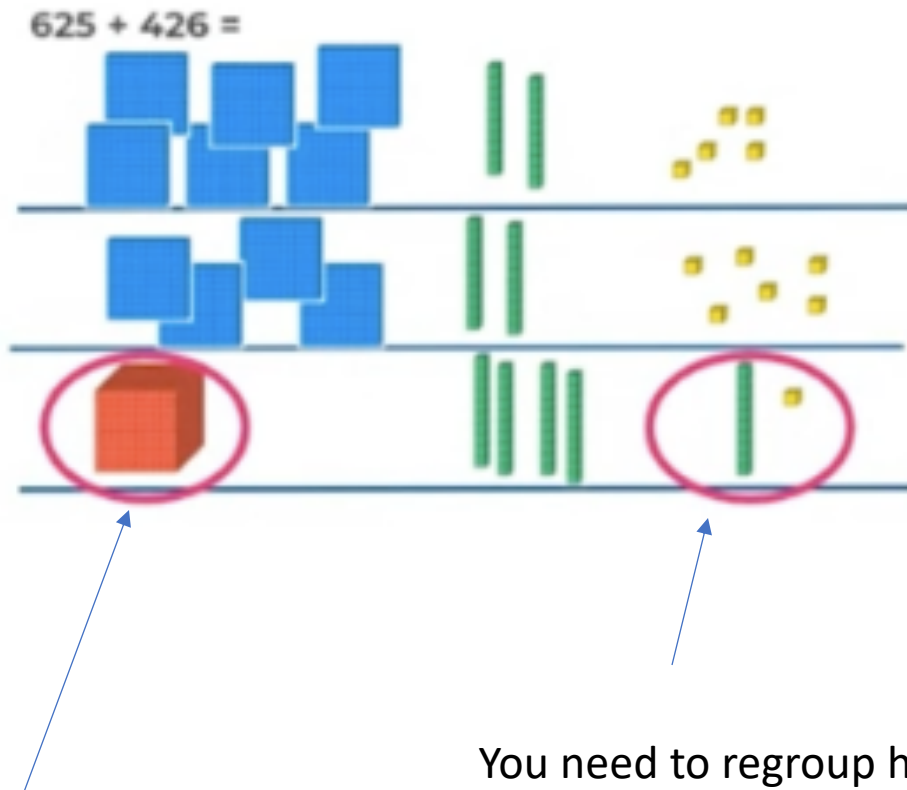
		6	2	5				
	+	<u>4</u>	<u>2</u>	<u>6</u>				
			5	1				
			1					

What will go here?

Answers on the next slide:

Answers!

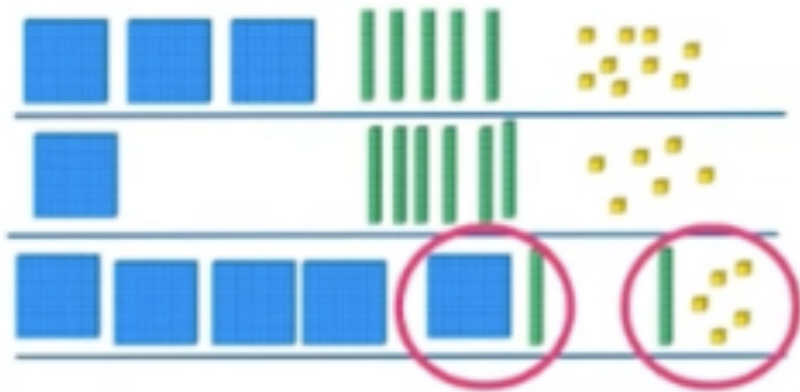
Column addition $625 + 426 =$



		6	2	5				
	+	<u>4</u>	<u>2</u>	<u>6</u>				
	<u>1</u>	<u>0</u>	<u>5</u>	<u>1</u>				
			1					

Now do this one:

Column addition $359 + 166 =$



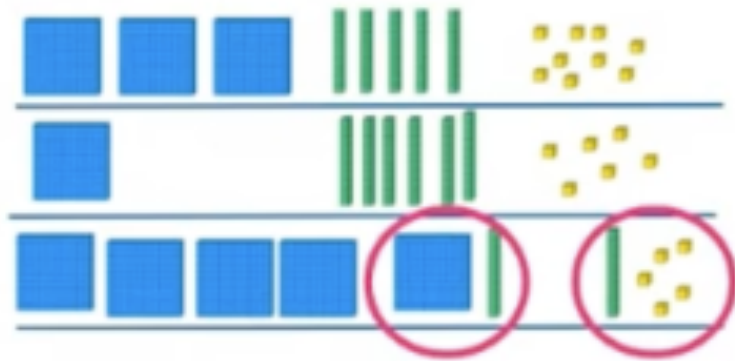
		3	5	9				
	+	<u>1</u>	<u>6</u>	<u>6</u>				

Remember to regroup twice!

Answer on the next page.

Answer!

Column addition $359 + 166 =$



How did you do?

		3	5	9				
	+	<u>1</u>	<u>6</u>	<u>6</u>				
		<u>5</u>	<u>2</u>	<u>5</u>				
		1	1					

Task: Now do these addition calculations.

Use either dienes or do a written calculation.

**Part A - use column addition to answer these
(Not all need column addition so look carefully)**

$313 + 254$	$373 + 458$	$422 + 275$
$468 + 356$	$276 + 335$	$534 + 267$
$212 + 366$	$586 + 217$	$378 + 256$

Think:

How am I
going to set
out my
work?

It should
look like this:

	5	2	7
+	2	6	9

Answers on the next slide – no peeking!

Answers:

Part A - use column addition to answer these
(Not all need column addition so look carefully)

$313 + 254$ 567	$373 + 458$ 831	$422 + 275$ 697
$468 + 356$ 824	$276 + 335$ 611	$534 + 267$ 801
$212 + 366$ 578	$586 + 217$ 803	$378 + 256$ 634

How did you do?

Now try this:

Part B

1) What could the missing numbers here be?

Are there more than 1 possibility?

$$\begin{array}{r} \square 4 6 \\ + 5 0 \square \\ \hline 1 \square \square 1 \end{array}$$

1

2) Check this answer carefully

$$\begin{array}{r} 4 2 6 \\ + 3 4 7 \\ \hline 7 6 3 \end{array}$$

Is this calculation correct?

Why?

Why not?

Answers on the next slide – no peeking!

Answers:

Part B

1) What could the missing numbers here be?

Are there more than 1 possibility?

$$\begin{array}{r} \boxed{5} \ 4 \ 6 \\ + \ 5 \ 0 \ \boxed{5} \\ \hline 1 \ \boxed{0} \ \boxed{5} \ 1 \end{array}$$

1

2) Check this answer carefully

$$\begin{array}{r} 4 \ 2 \ 6 \\ + \ 3 \ 4 \ 7 \\ \hline 7 \ \cancel{6} \ 3 \end{array}$$

1

The regrouping was not shown!
The tens column is wrong.

Easier:

Column Addition (within 100 no regrouping) 1

Name:

Date:



				T	U
				7	2
			+	1	6
Add the units then add the tens				8	8

	T	U		T	U		T	U	
	5	8		5	2		6	7	
+	3	0		+	1	2	+	2	1

	6	2			4	0			3	5			2	3			3	4
+	3	3		+	3	7		+	2	4		+	3	5		+	6	3
	2	1			2	8			7	4			3	1			6	1
+	3	3		+	3	0		+	1	4		+	6	3		+	1	2
	2	3			6	3			2	1			3	3			1	3
+	1	1		+	1	4		+	7	6		+	6	1		+	5	3
	6	7			6	5			8	3			8	5			5	2
+	1	1		+	2	3		+	1	5		+	1	2		+	3	3

Harder:

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

Name:

Date:



					H	T	U
					3	1	9
				+	2	9	4
Add the units then add the tens then add the hundreds:					6	1	3
Add a 10 to the 10s column or 100 to the 100s column if you need to.					1	1	

	H	T	U			H	T	U
	3	1	7				4	5
+	2	8	8		+	4	8	7

	8	9	8			6	5	3			6	8	2			5	2	9
+		3	2		+	1	6	8		+	2	3	8		+	2	7	4
	2	7	8			7	1	6			4	3	1			8	4	2
+	3	9	8		+	1	8	5		+		6	9		+		9	9
	3	9	6			4	4	7			6	9	8			4	3	7
+	1	0	5		+		8	7		+	2	5	3		+	2	7	8
	1	5	8			5	9	6			2	1	8			5	6	5
+	3	7	9		+	1	2	8		+	4	8	6		+	2	6	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!

