L.I. IALT adding two 3-digit numbers with regrouping.	U4 L7 and L8	
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I have rounded to the nearest ten to estimate a calculation.		
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(Greater Depth) I have identified and explained an error to a calculation.		

SELF EVALUATION: **Rate your progress over the past two days we have been doing column addition.**

/ 5

NEXT STEP: **Miss Suarez has used column addition to calculate her answer.**

	3	4	3
+	2	7	2
	5	1	5

Is she correct? Explain why/why not using your STAR words.

GD NEXT STEP: **Create your own two 3 digit number ensuring you regroup in all columns of ones,tens and hundreds.**

Remember your **STAR WORDS:** addition, plus, sum, total, bar model, number bond, regroup, partition, difference,hundreds, tens, ones and column method.

Using mental strategies for addition

Try to solve these addition calculations mentally.

455 + 123 **175 + 213** **236 + 4**

536 + 233 **336 + 257** **724 + 2**

Which is the odd one out?
Why is that?

Key learning: To add two 3-digit numbers using column addition

addition plus sum total

bar model number bond regroup

partition column method

Star Words

Adding two 3-digit numbers using column addition, regrouping from ones to tens

New Learning

Highlight the information with the class

One Sunday, in Edinburgh Castle car park, there were 644 cars and 137 coaches.

How many vehicles were in the car park altogether?

How could a bar model represent the problem?

Adding two 3-digit numbers using column addition, regrouping from ones to tens

New Learning

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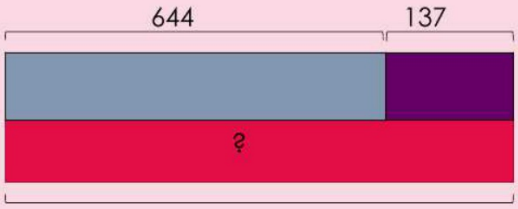
How many vehicles were in the car park altogether?

How could a bar model represent the problem?



How do we write it as a number sentence?

Adding two 3-digit numbers using column addition, regrouping from ones to tens

New Learning

One Sunday, in Edinburgh Castle car park, there were 644 cars and 137 coaches.

How many vehicles were in the car park altogether?

644 + **137** = ☐

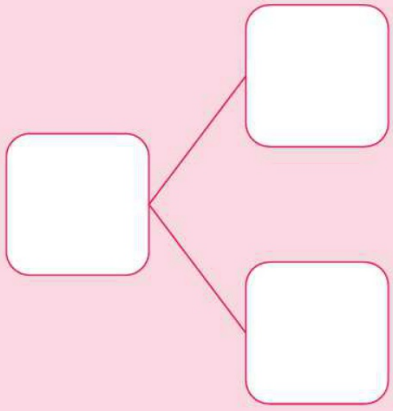
What is it about this calculation that might make it tricky to do mentally?

Adding two 3-digit numbers using column addition, regrouping from ones to tens

New Learning

What would be a good estimate for this calculation?

644 + **137** = ☐



ntifying when regrouping happens in more than one column

el with dienes

644 + **137** = ☐

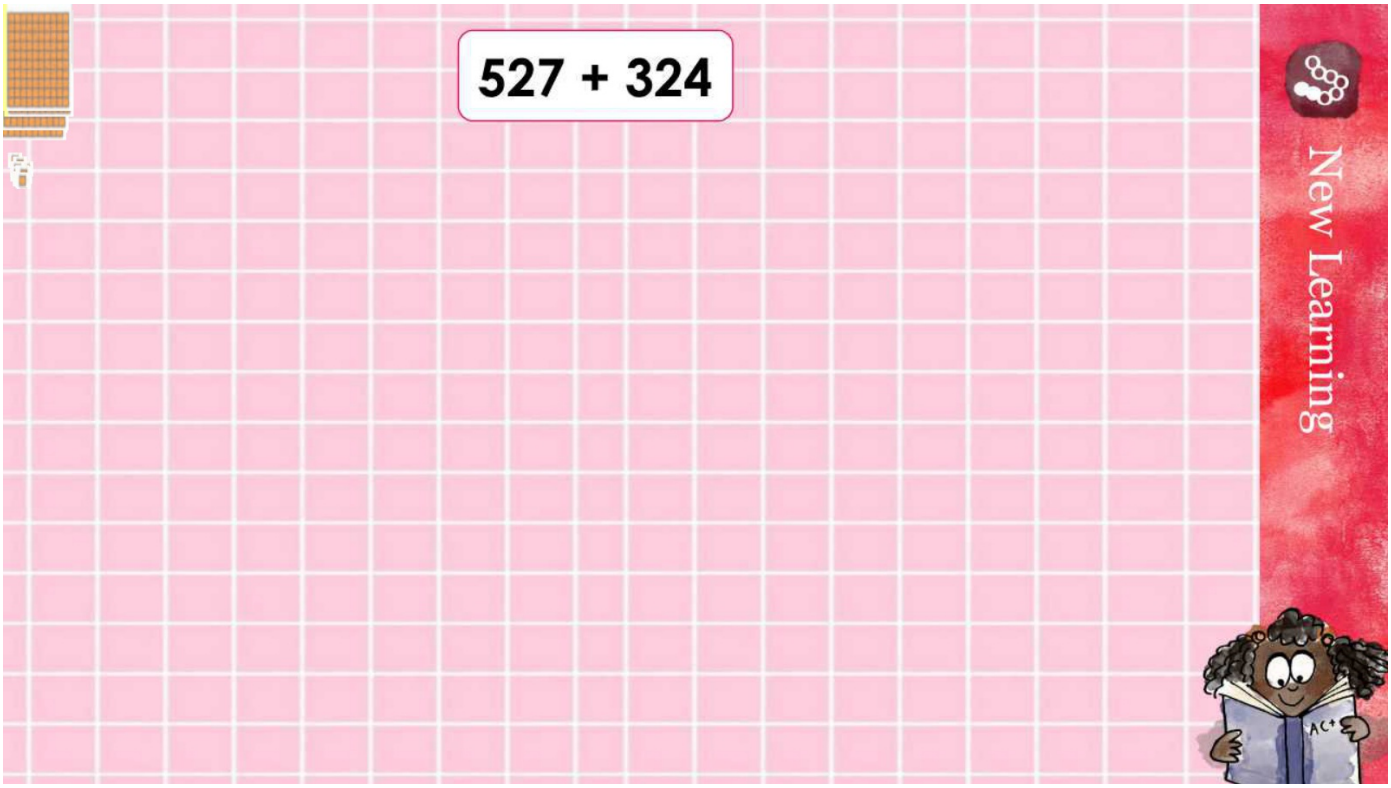
Hundreds	Tens	Ones

New Learning

ctice column addition

424 + 242

New Learning


527 + 324
New Learning

Practising column addition, regrouping ones to tens

- Partner A should write the column method to solve it.
- Partner B should use Dienes on a place-value chart.
- Take it in turns to add one column at a time.

226 + 345 **223 + 351** **346 + 227**

Hundreds	Tens	Ones

Talk Task

Adding two 3-digit numbers using column addition, regrouping from tens to hundreds

Develop Learning

Highlight the information with class

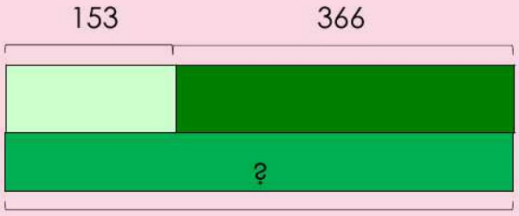
A sponsored walk ended at Edinburgh Castle.

153 walkers earned extra sponsorship by finishing in less than six hours.

A further 366 walkers completed the walk.

How many people completed the sponsored walk in total?

What calculation that needs to be done does the bar model show?



Adding two 3-digit numbers using column addition, regrouping from tens to hundreds

What would be a good estimate for this calculation?

366 + **153** = ☐

Develop Learning

635 + 328

1. Estimate the answers (Rounding)
2. Column Addition

Develop Learning

437 + 247

1. Estimate the answers (Rounding)
2. Column Addition

Develop Learning

Hard

45 + 12	75 + 21
26 + 45	33 + 29
536 + 233	724 + 243

Challenge: 437 + 245

Harder

226 + 345=	223 + 457=	346 + 227=
424 + 358=	527 + 324=	635 + 135=

Challenge: ☐ = 463 + 338

Hardest

423 + 369 = ☐	354 + 272 = ☐	416 + 375 = ☐
☐ = 563 + 341	680 + 252 = ☐	☐ = 463 + 361

Challenge:

2 4 5 + 1 ☐ 3 4 ☐ 8	2 5 5 + 4 7 3 7 ☐ 8	2 5 5 + 4 ☐ 1 ☐ 4 ☐

GD Challenge

Identifying and explaining an error

Is this sum correct?
How do you know?

343
+ 272
515

Independent Task

0 2 1 2 2 0 2 0

2 day grid

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NEXT STEP: Miss Suarez has used column addition to calculate her answer.

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Remember your **STAR WORDS:** addition, plus, sum, total, bar model, number bond, regroup, partition, difference,hundreds, tens, ones and column method.

WUW: On your whiteboard, answer these calculations.

583 + 262

135 + 224

435 + 242

476 + 353

Key learning: To add two 3-digit numbers using column addition

Star Words

difference

addition

plus

sum

hundreds

tens

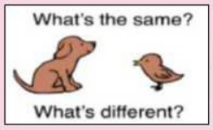
ones

regroup

number bond

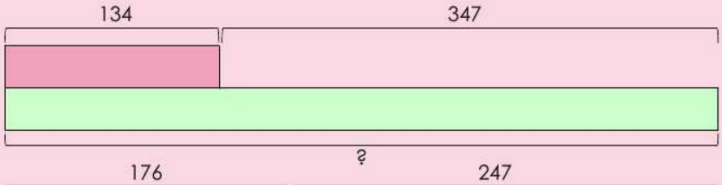
Identifying when regrouping happens in more than one column

TTYP

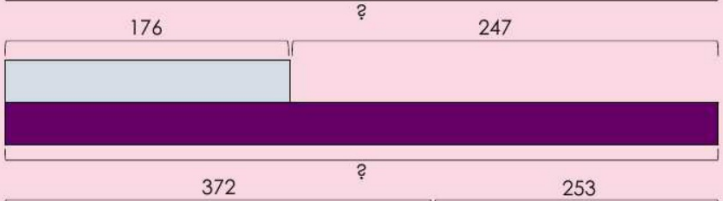


New Learning

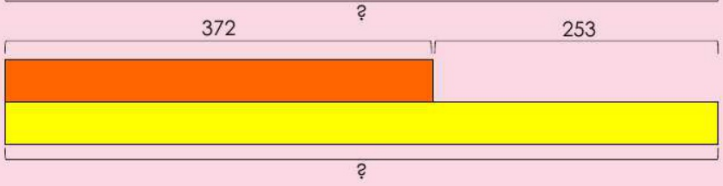
134 + 347



176 + 247



372 + 253



Identifying when regrouping happens in more than one column

Model with dienes

462 + 356

Hundreds	Tens	Ones

New Learning

Identifying when regrouping happens in more than one column

Model with dienes

226 + 335

Hundreds	Tens	Ones

New Learning

Adding two 3-digit numbers requiring regrouping of ones and tens

258 + 186 **343 + 458** **461+ 237**

Talk Task

258 + 186 will need regrouping of the ones and tens because the ones total more than 10 and the tens total more than 100.

8 ones add 6 ones is 14 ones.
I need to regroup 10 ones for 1 ten. I have 4 ones in the ones column and I record the regrouped ten
in the tens column.

Hundreds	Tens	Ones

I have regrouped 10 ones blocks as 1 ten rod.

Adding two 3-digit numbers requiring regrouping of ones and tens

What is the number sentence?

Hundreds	Tens	Ones
200	50	8
100	80	8
400	40	6

16

What happened to this calculation? What happened to the ones and tens?

258
188
446
11

Develop Learning

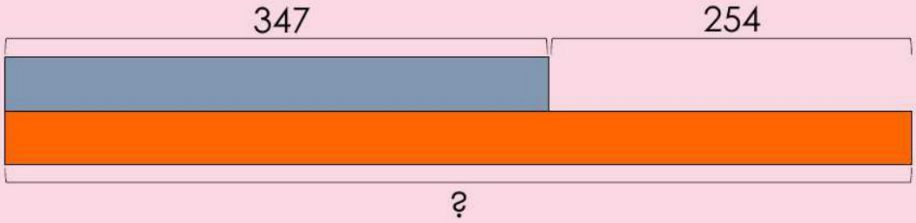
Regrouping of tens caused by regrouping of ones

347 + **254** = ☐

Estimate the answer before calculating it.

Does this calculation need regrouping?

In which column or columns?



Develop Learning

Regrouping of tens caused by regrouping of ones

234 + 137

234
137
+
371
1

Develop Learning

Regrouping of tens caused by regrouping of ones

212 + 366

212

\+ 366

578

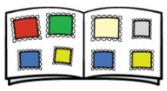
Develop Learning

Hard

35 + 56	72 + 19	44 +58
223 + 172	321 + 268	311 + 458

Challenge: Hard

Fred sells stamps. On Monday he sold 25 stamps and on Tuesday he sold 16 more. How many stamps did he sell altogether?



Harder

258 +186	343 + 458	461 + 273
468 + 356	226 + 335	552 + 263

Challenge: Harder

Miss Suarez has 313 lemons. She bought 254 more lemons. How many lemons does Miss Suarez have all together to make lemonade?

Hardest

348 + 254	373 + 458	456 + 275
= 468 + 356	=276 + 335	= 554 + 267

Challenge: Hardest

Aisha has 456 marble. Then Eva gave Aisha 566 marbles. How many marbles does Aisha have?

GD Challenge

Can you make up a word problem that fits this bar model?

Estimate the answer to the calculation needed.

Independent Task

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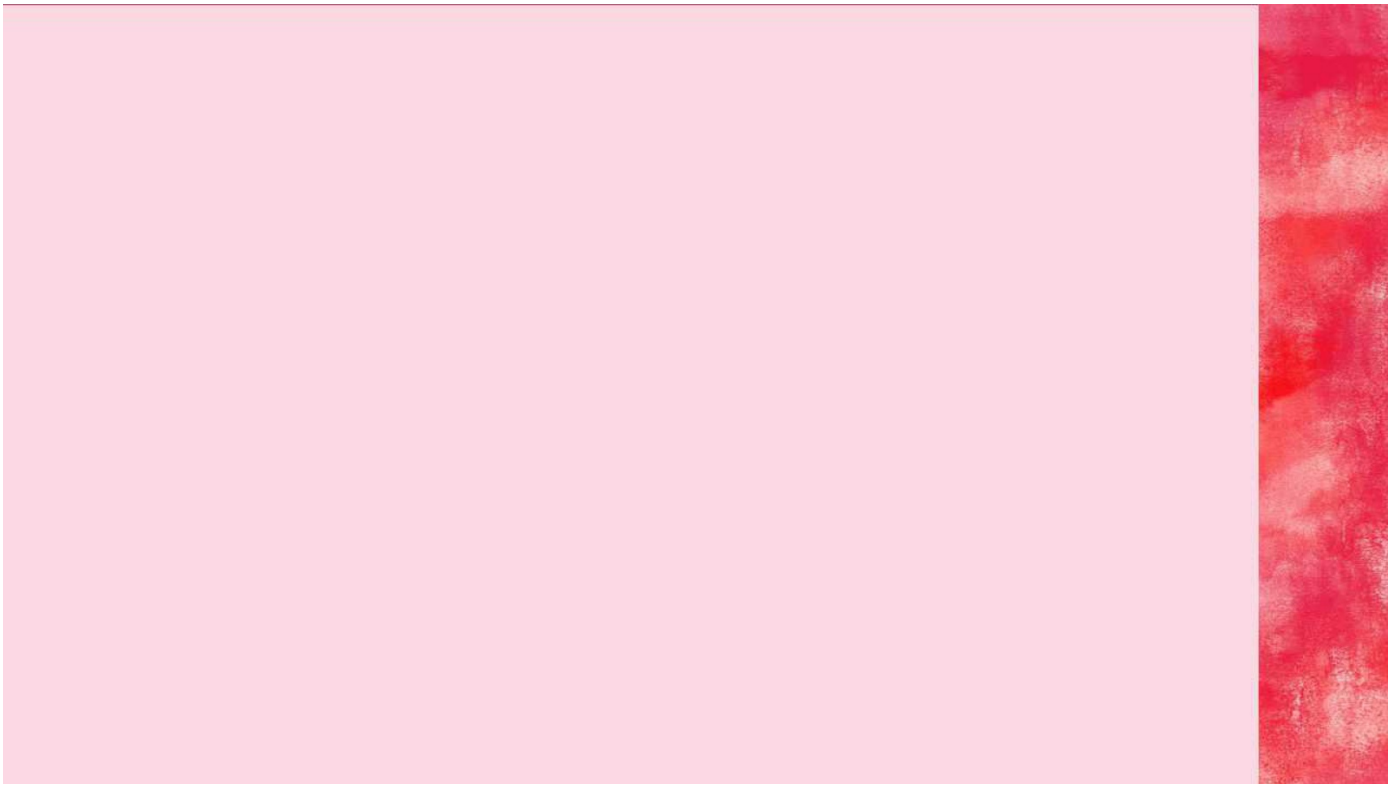
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