

LI	WALT: I can add using column addition with no exchanges	
	I can add using column addition I can reason on how to add using column addition	
	I can add using column addition I can compare column and expanded method	
	I can add 2-digit numbers using column addition. I can add 3-digit numbers using column addition and dienes	
Nasty Maths		

Recap

To find number bonds to 100, add to the nearest 10 and then count in 10s to 100.

$$3 \quad 7 \quad + \quad \underline{\hspace{2cm}} \quad = \quad 1 \quad 0 \quad 0$$

$$6 \quad 4 \quad + \quad \underline{\hspace{2cm}} \quad = \quad 1 \quad 0 \quad 0$$

$$2 \quad 9 \quad + \quad \underline{\hspace{2cm}} \quad = \quad 1 \quad 0 \quad 0$$

With number bonds to 100, the ones added always equal and the tens added always equal .

How quickly can you complete the additons???

$$5 + 6$$

A

11

B

12

3	1	2	+	2	2	4
---	---	---	---	---	---	---

Solve the addition using both methods

Expanded Method

Column method

3	1	2
---	---	---

3	1	2
---	---	---

+	2	2	4
---	---	---	---

+	2	2	4
---	---	---	---

(	+	)
---	---	---

(	+	)
---	---	---

(	+	)
---	---	---

What is the same?

What is different?

I do

5

4

3

+

2

3

4

I do

5

4

3

+

2

3

4

We do

3

6

5

+

2

3

4

You do

6

2

1

+

3

3

5

Plenary

Spot the mistakes

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

L2	WALT: <i>I can add using column method with exchanges</i>	
	I can add using column method with exchanges I can reason about using exchanges in column method	
	I can add using column addition with exchanges I can spot mistakes in column method addition	
	I can add 2-digit numbers with exchanges using dienes and column method	
Nasty Maths		

Tell me how to add using column addition

$\begin{array}{r} 273 \\ +514 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 451 \\ +225 \\ \hline \\ \hline \end{array}$
--	--

Play addition within 20 - can you beat a score of 25?



<https://www.topmarks.co.uk/maths-games/hit-the-button>

4	6	2	+	2	2	9
---	---	---	---	---	---	---

Let's compare both methods

Expanded Method

Column method

4	6	2
---	---	---

4	6	2
---	---	---

+	2	2	q
---	---	---	---

+	2	2	q
---	---	---	---

(	+	)
---	---	---

(	+	)
---	---	---

(	+	)
---	---	---

--	--	--

--	--	--

--	--	--

--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

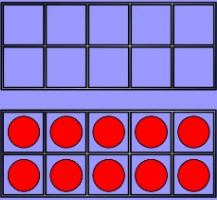
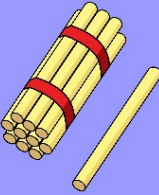
Place Value Grid

Calculation

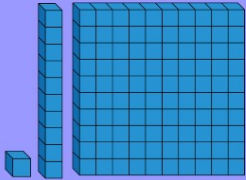


Hundreds	Tens	Ones	
			




$>$
 $<$
 $+$
 $-$
 $=$

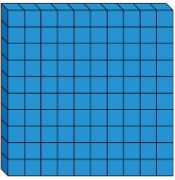
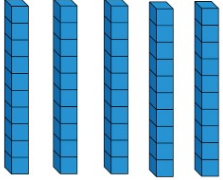
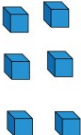
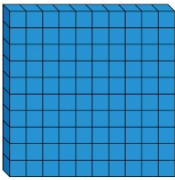
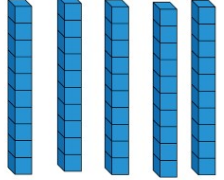
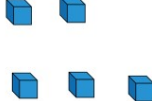


Place Value Grid

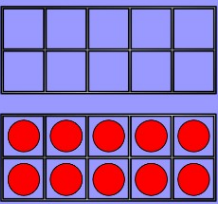
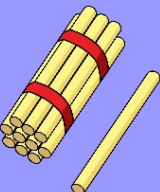
We do

Calculation

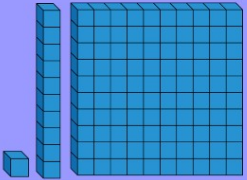


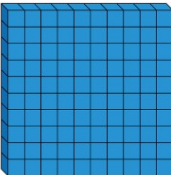
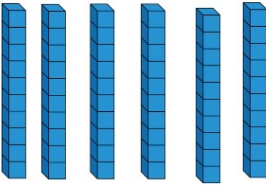
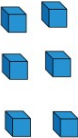
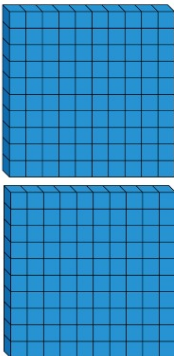
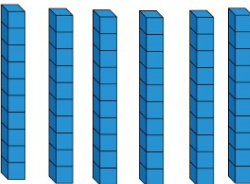
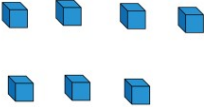
Hundreds	Tens	Ones	
			
			




$>$
 $<$
 $+$
 $-$
 $=$



Hundreds	Tens	Ones
		
		

A large grid with a red vertical line down the center. The top-left quadrant contains the text "Dicey operations!" and the bottom-left quadrant contains the text "Biggest answer wins!". The right half of the grid is empty.

L3	WALT: I can subtract using column addition with no exchanges	
	I can subtract using column method I can reason on how to subtract using column method	
	I can subtract using column addition I can compare column and expanded methods	
	I can subtract using column addition and dienes	
Nasty Maths		

Tell me how to add using column method

	1	0	9			4	5	5
+	1	3	9		+	2	8	1

We do

q

7

5

—

5

4

3

You do

8

6

7

—

5

4

6

Plenary

Correct or Incorrect?

✓ or ✗

$$\begin{array}{r} 6 \boxed{2} \\ - 43 \\ \hline 25 \end{array}$$

$$\begin{array}{r} \boxed{8}8 \\ - 3\boxed{5} \\ \hline 53 \end{array}$$

$$\begin{array}{r} 6\boxed{3}4 \\ - 35\boxed{4} \\ \hline 320 \end{array}$$

$$\begin{array}{r} 41\boxed{5} \\ - 1\boxed{2}4 \\ \hline 291 \end{array}$$

For the incorrect examples, explain the mistakes.

L4	WALT: I can subtract using column addition with exchanges	
	I can subtract using column method with exchanges I can reason on how to subtract using column method	
	I can subtract using column addition with exchanges I can correct mistakes in column method subtractions	
	I can subtract using column method with exchanges and dienes	
Nasty Maths		

Recap

Tell me how to subtract using column method

[illegible]

562-148

Use both methods to solve the subtraction

H			T		O			
			+		+	=		

What is the same?

What is different?

562

-148

Place Value Grid

I do

Calculation



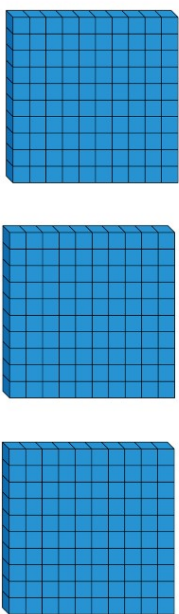
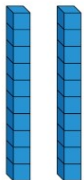
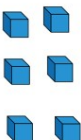
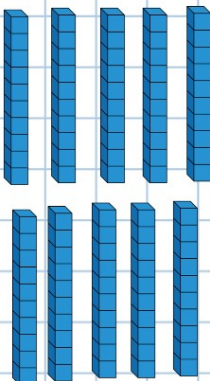
Hundreds	Tens	Ones	2	2	6	-	1	1	8

Place Value Grid

We do

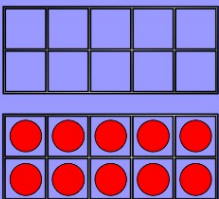
Calculation

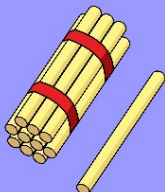


Hundreds	Tens	Ones	3	2	6	-	1	4	3
									



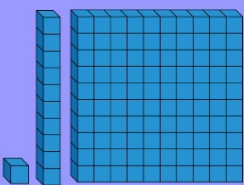












Plenary

Correct or Incorrect? ✓ or ✗

Which of these regroupings have been done correctly?

$$\begin{array}{r} 5 \\ \cancel{8}^1 1 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \cancel{8}^1 3 \\ - 67 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \cancel{9}^1 6 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \cancel{5}^1 7 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 4 \cancel{3}^1 4^1 \\ - 228 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \cancel{6}^1 0 9 \\ - 155 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 6 \\ \cancel{7}^1 0 8 \\ - 427 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \\ 8 \cancel{8}^1 5 \\ - 325 \\ \hline \end{array}$$

For the incorrect examples, explain the mistakes.