




Lesson 1

Starter

Hundreds	Tens	Ones
		

- 1) What number is represented?
- 2) Add 200. What number is represented now?
- 3) What column changed?

$$129 + \text{★} = 829$$

$$345 + \text{★} = 645$$

Complete the calculations

$345 + 500 =$
$232 + 400 =$
$189 + 600 =$
$437 + 100 =$
$372 + \underline{\quad} = 772$
$550 + \underline{\quad} = 750$

Lesson 1  
Main task

1) Complete these calculations

$365 + 500 =$
$532 + 200 =$
$201 + 700 =$
$444 + 300 =$
$123 + \underline{\quad} = 423$
$603 + \underline{\quad} = 903$
$187 + \underline{\quad} = 687$
$\underline{\quad} + 500 = 765$

2) Complete these sequences.

123		323			623			923
-----	--	-----	--	--	-----	--	--	-----

46	246			846
----	-----	--	--	-----

Complete your own sequence

--	--	--	--	--	--	--	--	--

3) Complete the table

<u>Start number</u>	<u>Add 100</u>	<u>Add 300</u>	<u>Add 200</u>	<u>Add 100</u>
92	192	492	692	792
23				
102				
183				

Lesson 1  
Challenge

Teddy starts with the number 356

He adds a multiple of 100

His new number is greater than 500 but less than 800

Complete the table

<u>Numbers he couldn't have added</u>	<u>Numbers he could have added</u>

Lesson 2  
Main task

Complete each sequence

What is the sequence increasing by each time? Explain how you know

103	203			503
-----	-----	--	--	-----

76	276			
----	-----	--	--	--

54		654	954
----	--	-----	-----

19				819
----	--	--	--	-----

Complete your own sequences and explain them

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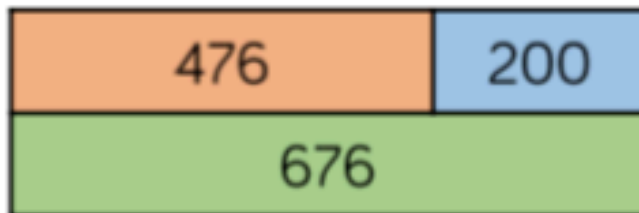
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Lesson 2  
Challenge

Complete the scenarios so they match the bar model.



Ron has \_\_\_\_ altogether.

He spends \_\_\_\_\_ and has £476 pounds left.

Jack has \_\_\_\_\_

Eva has £200

They have \_\_\_\_ altogether.

Amir has £200 more than Rosie.

Amir has \_\_\_\_\_

Rosie has \_\_\_\_\_

Draw your own bar model where one of the parts is a multiple of 100

Write scenarios to match the bar model.

Lesson 3  
Main task

Complete these additions

$245 + 334 =$
$543 + 234 =$
$146 + 123 =$
$432 + 512 =$
$320 + 433 =$
$872 + 117 =$
$760 + 202 =$
$603 + 240 =$

Challenge

Jack is calculating  $506 + 243$

Here is his working out.

		5	6
+	2	4	3
	2	9	9

Can you spot Jack's mistake?  
Work out the correct answer.

Lesson 4  
Main task

1) Use the table to help you work out the questions.

<u>Day</u>	<u>Amount of dojo's</u>
Monday	234
Tuesday	520
Wednesday	301
Thursday	632
Friday	217

- 1) How many dojos were awarded on Monday and Wednesday?
- 2) What was the total number of dojos on Tuesday and Friday?
- 3) Which has a greater total?

-Monday and Tuesday  
-Thursday and Friday

2) Use the price list to answer the questions.

<u>Item</u>	<u>cost</u>
TV	£213
Bike	£450
XBox	£305
Segway	£112
Fortnite game	£532
Harry Potter book collection	£641

- 1) What is the total cost of a bike and an Xbox?
- 2) What is the total cost of a TV and Harry Potter book collection?
- 3) Which items have a greater total?

-Fortnite game and a TV  
-Segway and Harry Potter book collection

3) Miss Walker has completed her homework.

Mark her work and discuss the mistakes she has made.

$$250 + 454 = 479$$

	<i>H</i>	<i>T</i>	<i>O</i>
		2	5
+	4	5	4
	4	7	9



Lesson 5  
Main Task

- 1)  $236+128=$
- 2)  $473+ 252=$
- 3)  $561+122=$
- 4)  $309+124=$
- 5)  $673+158=$
- 6)  $271+675=$
- 7)  $761+132=$
- 8)  $550+155=$
- 9)  $818+126=$

True or false? The answer to the addition below is correct?



	<b>H</b>	<b>T</b>	<b>O</b>
	<b>3</b>	<b>7</b>	<b>3</b>
<b>+</b>	<b>6</b>	<b>1</b>	<b>7</b>
<hr/>			
	<b>9</b>	<b>9</b>	<b>0</b>
<hr/>			
		<b>1</b>	



True or false? The answer to the addition below is correct?

	<b>H</b>	<b>T</b>	<b>O</b>
	<b>2</b>	<b>6</b>	<b>6</b>
<b>+</b>	<b>3</b>	<b>2</b>	<b>5</b>
<hr/>			
	<b>5</b>	<b>8</b>	<b>1</b>
<hr/>			
		<b>1</b>	

## Lesson 6

What are the numbers underneath the splats?

		6	4
+	1	2	
<hr/>			
	4	8	9
<hr/>			

		6	4
+	1	2	
<hr/>			
	4	8	9
<hr/>			

Which calculation is the odd one out?





**A.**

	2	2	8
+	6	7	3
<hr/>			
<hr/>			

**B.**

	3	4	9
+	5	5	2
<hr/>			
<hr/>			

**C.**

	<b>H</b>	<b>T</b>	<b>O</b>
			
			
	2	5	1

Explain your answer.

Lesson 6  
Challenge

Roll a 1 to 6 die.

Fill in a box each time you roll.

$$\square\square\square + \square\square\square =$$

Can you make the total:

- An odd number
- An even number
- A multiple of 5
- The greatest possible number
- The smallest possible number

Lesson 7  
Main task

1) Match these additions to their answer

$256+366=$
$157+585$
$439+358=$
$196+345=$
$583+248=$
$156+165=$
$386+234=$
$777+145=$

797
831
321
742
620
922
622
541

Challenge

Connor raises £352 in sponsorship money. Scott raises five hundred and seventy-nine pounds.

What is the total amount of money?

Lesson 8  
Main task

1) Use any digit card from 0 - 9 to create an addition with 1 exchange. You may only use each digit once in any calculation. Your answer must be greater than 632 and less than 698.

$$\begin{array}{r} \square \square \square \\ + \square \square \square \\ \hline \end{array}$$

Is there more than one possible answer?

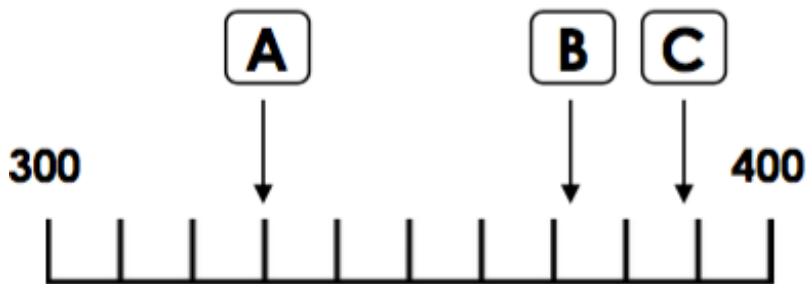
Use any digit card from 0 - 9 to create an addition with at least 1 exchange. You may only use each digit once in the two addends. Your answer must be greater than 810 and less than 830.

$$\begin{array}{r} \square \square \square \\ + \square \square \square \\ \hline \end{array}$$

Is there more than one possible answer?

Lesson 9  
Main task

1) Which arrow shows the number 388?



2) Tick the number that is nearest to 120

113       124       129



3) True or false? 856 is closest to 800



4) Match the calculations to the answers by estimating

A.  $141 + 52$

180

B.  $110 + 68$

190



## Challenge

Estimate the answers to these additions.

$$125 + 341 =$$

$$331 + 189 =$$

$$345 + 355 =$$

$$276 + 429 =$$

Lesson 10

Main task

1) Use the clues below to estimate what the number could be

It is a 3-digit number.

The hundreds digit is odd.

The nearest number is 600.

The ones digit is 7.



2) Use the clues below to estimate what the number could be

It is a 3-digit number.

The hundreds digit is even.

The nearest number is 300.

The ones digit is 9.



3) Holly and Henry are estimating the answer to  $673+121=$



Holly

I estimate the answer to the calculation will be 790.

I estimate the answer to the calculation will be 780.



Henry



Who is correct?

Convince me



## Extra challenges

1. Jane asks Mum for help with her homework. She has a column addition calculation with some missing digits. She shows Mum these rules:

- Each empty square must contain a different digit.
- The calculation must include at least one exchange.
- The answer has an odd digit sum.
- In the answer, one of the missing digits is half the value of the hundreds digit.

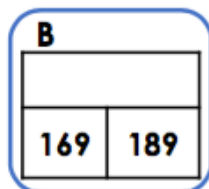
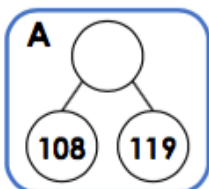
	3		7
+			
	8		



Find all of the missing digits. Is there more than one possible answer?

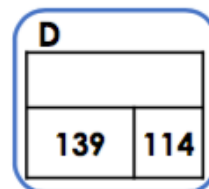
2. Investigate different pairs of representations that add together to make the total described below.

The total is an even number.  
It is more than 763 but less than 850.  
The tens digit is less than 5.



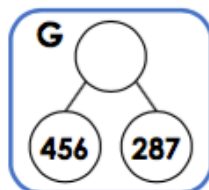
**C**

$$347 + 178 =$$



**E**  
two hundred and ninety-seven

**F**  
five hundred and thirty-nine

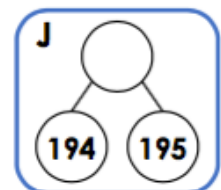


**H**

$$198 + 375 =$$

**I**

$$249 + 199 =$$



## Extra challenges-Answers

1. Jane asks Mum for help with her homework. She has a column addition calculation with some missing digits. She shows Mum these rules:

- Each empty square must contain a different digit.
- The calculation must include at least one exchange.
- The answer has an odd digit sum.
- In the answer, one of the missing digits is half the value of the hundreds digit.

	3	6	7
+	4	8	2
	1 8	4	9



Find all of the missing digits. Is there more than one possible answer?

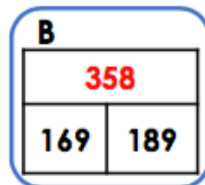
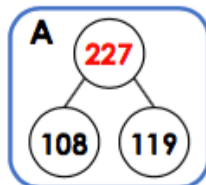
**Various answers, for example:**  $387 + 427 = 814$ ;  $397 + 437 = 834$ ;  $337 + 517 = 854$ ;  $347 + 527 = 874$ ;  $367 + 527 = 894$ ;  $327 + 514 = 841$ ;  $357 + 496 = 853$ ;  $317 + 528 = 845$ ;  $367 + 480 = 847$

DF

2. Investigate different pairs of representations that add together to make the total described below.

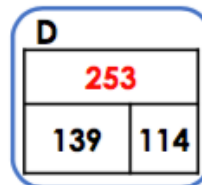
**Various answers, for example:**

**Any even number between 800 and 840.**



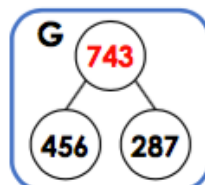
**C**

$$347 + 178 = 525$$



**E**  
two hundred and ninety-seven

**F**  
five hundred and thirty-nine

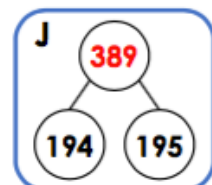


**H**

$$198 + 375 = 573$$

**I**

$$249 + 199 = 448$$



**B and I = 806; E and F = 836; C and J = 814; H and D = 826**

DF

