

CLASSROOM *Secrets*

#LIFEworkbalance

We have started a #LIFEworkbalance campaign and we need your help to complete our LIFE/work balance survey.

We hope to publish the results soon, so please give 15 minutes of your time to help us get a true picture of school life.

Want to be a part of this campaign? Take the [survey](#) on our website and share it with your colleagues!

Year 3 – Autumn Block 2 – Addition and Subtraction

2-Digit and 3-Digit Numbers

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 3: (3C2) [Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction](#)

Mathematics Year 3: (3C4) [Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction](#)

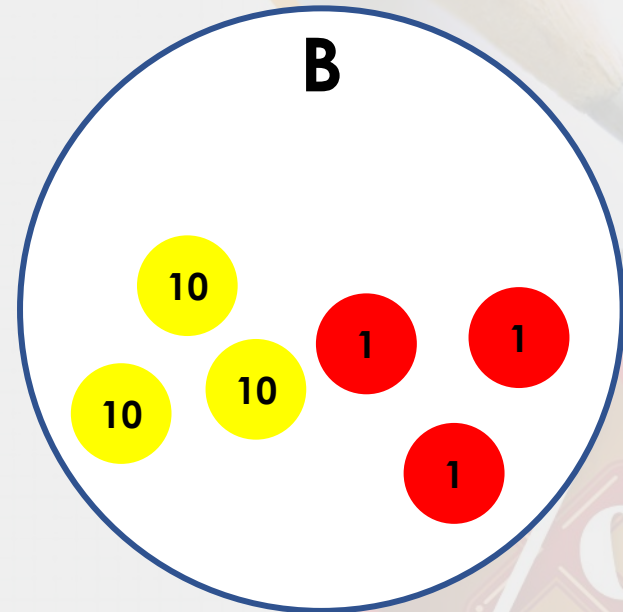
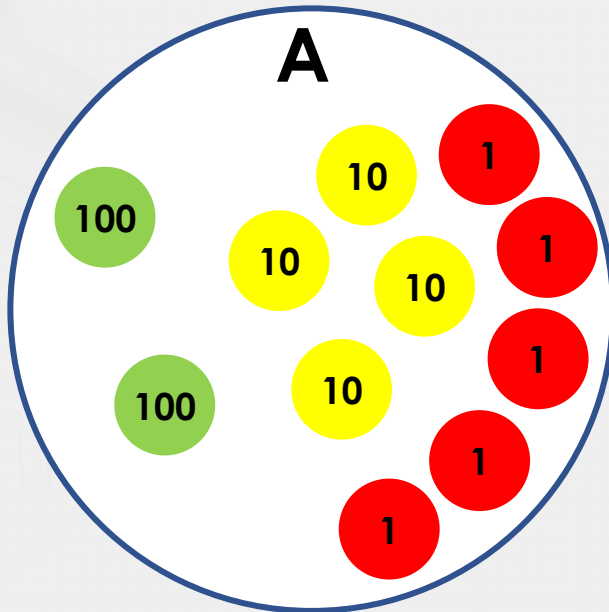
More [Year 3 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Step 10: 2-Digit and 3-Digit Numbers

Introduction

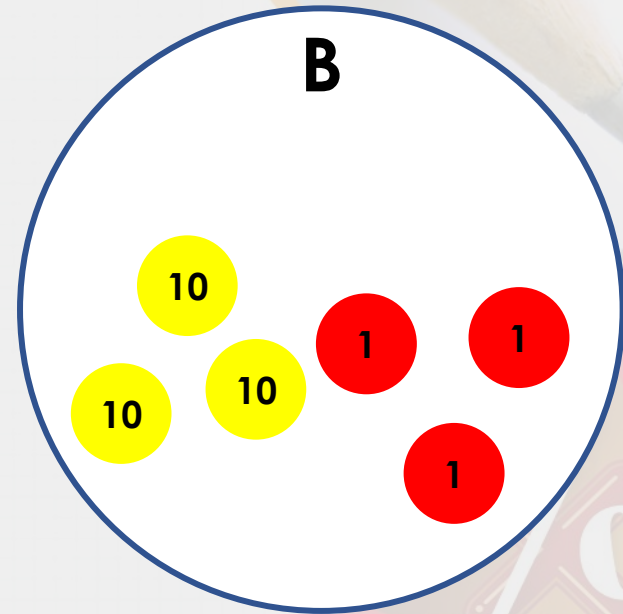
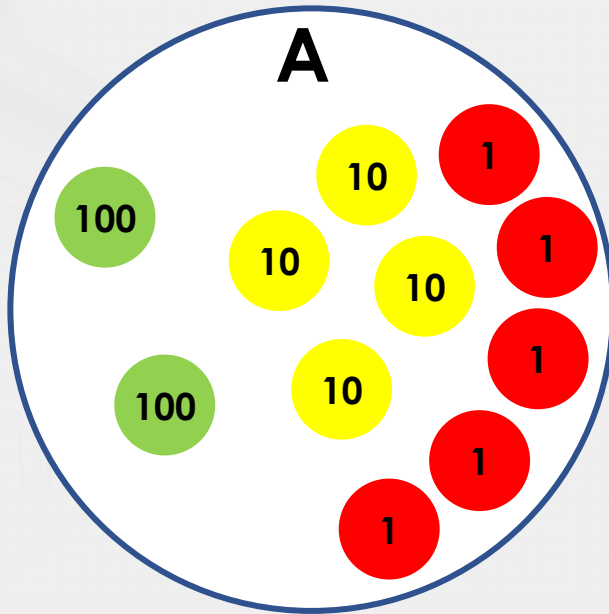
Use the counters below to complete the question.



What numbers are represented in A and B?

Introduction

Use the counters below to complete the question.











What numbers are represented in A and B?

$$A = 245$$

$$B = 33$$









Varied Fluency 1

True or false? The place value grid below represents $254 + 24 = 278$.

H	T	O
		
		
		

Varied Fluency 1





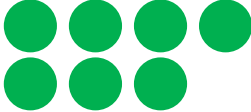
True or false? The place value grid below represents $254 + 24 = 278$.

H	T	O
		
		
		

False, in the 2-digit number the tens and ones digits have been swapped over. It should be 2 tens and 4 ones.

Varied Fluency 2

Which number sentence matches the image?

H	T	O
		
		






A. $137 + 41$

B. $41 + 137$

C. $137 - 41$

Varied Fluency 2

Which number sentence matches the image?

H	T	O
		
		


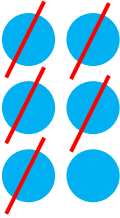
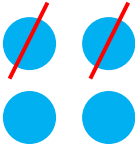
A. $137 + 41$

B. $41 + 137$

C. $137 - 41$

Varied Fluency 3


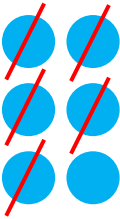
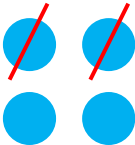
Write the number sentence that is represented in this place value grid.

H	T	O
		

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = 212$$

Varied Fluency 3

Write the number sentence that is represented in this place value grid.

H	T	O
		

$$\begin{array}{r} 264 \\ \hline \end{array} - \begin{array}{r} 52 \\ \hline \end{array} = 212$$

Varied Fluency 4

Does this column method match the calculation below?

four hundred and ninety-seven subtract sixty-four equals four hundred and thirty-three

	H	T	O
	4	7	9
-		6	4
<hr/>			
	4	3	3

Varied Fluency 4

Does this column method match the calculation below?

four hundred and ninety-seven subtract sixty-four equals four hundred and thirty-three

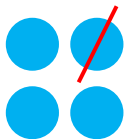
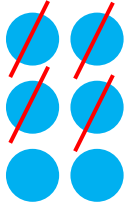
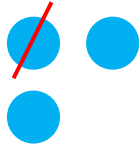
	H	T	O
	4	9	7
–		6	4
<hr/>			
	4	3	3

No. (In the 3-digit number the tens and the ones digits have been swapped over.)

Reasoning 1

Riley says the mistake in the representation below is that the wrong number of tens has been subtracted.

four hundred and sixty-three subtract fifty-one equals four hundred and twelve

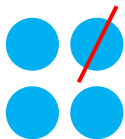
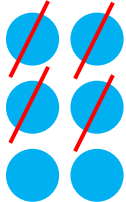
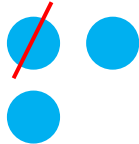
H	T	O
		

Do you agree? Explain.

Reasoning 1

Riley says the mistake in the representation below is that the wrong number of tens has been subtracted.

four hundred and sixty-three subtract fifty-one equals four hundred and twelve

H	T	O
		

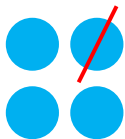
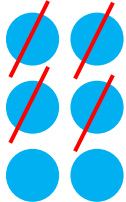
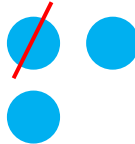
Do you agree? Explain.

Yes, one hundred, four tens and one one have been subtracted when it should have been ...

Reasoning 1

Riley says the mistake in the representation below is that the wrong number of tens has been subtracted.

four hundred and sixty-three subtract fifty-one equals four hundred and twelve

H	T	O
		

Do you agree? Explain.

Yes, one hundred, four tens and one one have been subtracted when it should have been five tens and one one.

Problem Solving 1

Create a word problem to match this column method representation.

	H	T	O
	3	2	6
+		6	3
<hr/>			
	3	8	9

Problem Solving 1









Create a word problem to match this column method representation.

	H	T	O
	3	2	6
+		6	3
<hr/>			
	3	8	9

Various answers, for example: During a seaside holiday I collected 326 shells. My friend collected another 63 shells. Altogether we had 389 shells between us.

Reasoning 2









Morgan thinks that $74 + 124 = 198$ is represented below.

H	T	O
		
		
		

Is she correct? Explain your answer.

Reasoning 2

Morgan thinks that $74 + 124 = 198$ is represented below.









H	T	O
		
		
		

Is she correct? Explain your answer.

No, in the answer (third row) the tens and ones digits have been swapped over. It shows ...

Reasoning 2

Morgan thinks that $74 + 124 = 198$ is represented below.

H	T	O
		
		
		

Is she correct? Explain your answer.

No, in the answer (third row) the tens and ones digits have been swapped over. It shows 189, not 198.