

Homework/Extension

Step 10: 2-Digit and 3-Digit Numbers

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](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Find the incorrect calculation using knowledge of calculations involving 2-digit and 3-digit numbers. Using Base 10.

Expected Find the incorrect calculation using knowledge of calculations involving 2-digit and 3-digit numbers. Using pictorial support and numerals.

Greater Depth Find the incorrect calculation using knowledge of calculations involving 2-digit and 3-digit numbers. Using mixed pictorial representations and numerals.

Questions 2, 5 and 8 (Varied Fluency)

Developing Complete a place value grid with the correct representation of a subtraction calculation involving 2-digit and 3-digit numbers. Using Base 10.

Expected Complete a place value grid with the correct representation of a subtraction calculation involving 2-digit and 3-digit numbers. Using numerals and some pictorial support.

Greater Depth Complete a place value grid with the correct representation of an addition calculation involving 2-digit and 3-digit numbers. No pictorial support provided.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain if a representation of a calculation involving 2-digit and 3-digit numbers is correct. Using Base 10.

Expected Explain if a representation of a calculation involving 2-digit and 3-digit numbers is correct. Using numerals and words.

Greater Depth Explain if a representation of a calculation involving 2-digit and 3-digit numbers is correct. Using numerals, words and unconventional partitioning.

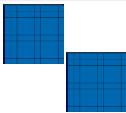
More [Year 3 Addition and Subtraction](#) resources.

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

2-Digit and 3-Digit Numbers

1. Which of the representations is incorrect?

A

H	T	O
		
		

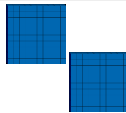
$$232 + 45 = 277$$

B

H	T	O
		

$$145 - 24 = 121$$

C

H	T	O
		
		

$$266 + 31 = 297$$



VF
HW/Ext

2. Draw the missing tens and ones to create the start number. Show the answer by crossing out the 2-digit number in the place value grid.

	H	T	O
	2	5	4
—		4	2
	2	1	2

H	T	O
		

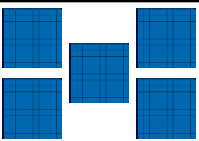


VF
HW/Ext

3. Adam has used a place value grid to show the calculation $532 + 64 = 596$.



+

H	T	O
		
		
5	9	6

Is he correct? Explain your answer.

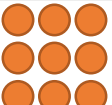


RPS
HW/Ext

2-Digit and 3-Digit Numbers

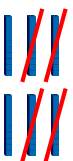
4. Which of the representations is incorrect?

A

H	T	O
		
		

$$539 + 40 = 579$$

B

H	T	O
		

$$366 - 41 = 325$$

C

H	T	O
		
		

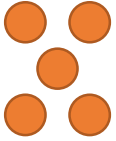
$$265 + 32 = 297$$



VF
HW/Ext

5. Draw the missing hundreds and tens to create the start number. Show the answer by crossing out the 2-digit number in the place value grid.

	H	T	O
	3	6	5
—		2	4
	3	4	1

H	T	O
		



VF
HW/Ext

6. Iris has worked out that four hundred and sixty-nine subtract twenty-five equals four hundred and forty-four.



	H	T	O
	4	9	6
—		2	5
	4	7	1

Is she correct? Explain your answer.



RPS
HW/Ext

2-Digit and 3-Digit Numbers

7. Which of the representations is incorrect?

A

H	T	O

$$678 + 21 = 699$$

B

H	T	O

$$546 - 35 = 511$$

C

H	T	O

$$453 + 24 = 477$$



VF
HW/Ext

8. Complete the place value grid by drawing Base 10 or counters to match the calculation below.

Thirty-two add two hundred and fifty-three equals two hundred and eighty-five

H	T	O



VF
HW/Ext

9. Zeeshan has calculated that three hundred and eighty-five subtract 6 tens and thirteen ones makes a total of three hundred and twelve.



	H	T	O
		7	3
—	3	8	5
	3	1	2

Is he correct? Explain your answer.



RPS
HW/Ext

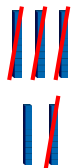
Homework/Extension

2-Digit and 3-Digit Numbers

Developing

1. A is incorrect because the place value grid doesn't match the calculation. In the second number the tens and ones digits have been swapped over. It should be 4 tens and 5 ones.

2. $254 - 42 = 212$

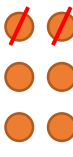
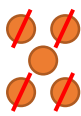
H	T	O
		

3. Adam is incorrect because he has put the Base 10 ones and tens in the wrong columns.

Expected

4. C is incorrect because the place value grid doesn't match the calculation. The tens and ones digits in the second number have been swapped over. It should be 3 tens and 2 ones.

5. $365 - 24 = 341$

H	T	O
		

6. Iris is incorrect because she has put 9 tens and 6 ones in the 3-digit number, when it should be 6 tens and 9 ones.

Greater Depth

7. C is incorrect because the place value grid doesn't match the calculation. In the 3-digit number, the hundreds representation should be 4, not 5.

8. $32 + 253 = 285$ – accept either 2-digit number on top or on bottom as addition is commutative.

H	T	O
		
		
		

9. Zeeshan is incorrect because he has put the 2-digit number in the top row. When subtracting, the largest number must go on top.