

Reasoning and Problem Solving

Step 14: Add Two 3-Digit Numbers 2

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 (Problem Solving)

Developing Identify two missing digits in a 3-digit addition calculation with some crossing of tens or hundreds. Base 10 and numerals are used in a place value chart.

Expected Identify two missing digits in a 3-digit addition calculation with some crossing of tens and/or hundreds. Numerals used in a column format.

Greater Depth Identify three missing digits in a 3-digit addition calculations with crossing of tens and/or hundreds. Numerals and words used. No column format provided.

Questions 2, 5 and 8 (Problem Solving)

Developing Create a 3-digit addition calculation that fits within given parameters. Includes some crossing of tens or hundreds. Base 10 and numerals used. Pictorial support given.

Expected Create a 3-digit addition calculation that fits within given parameters. Includes mostly crossing of tens and/or hundreds. Column format used.

Greater Depth Create a 3-digit addition calculation that fits within given parameters. Includes crossing of tens and/or hundreds. No column format provided.

Questions 3, 6 and 9 (Reasoning)

Developing Investigate which 3-digit addition calculation is the odd one out. Includes some crossing of tens or hundreds. Base 10 and numerals used only within a place value chart. Pictorial support given.

Expected Investigate which 3-digit addition calculation is the odd one out. Includes mostly crossing of tens and/ hundreds. Numerals used. Some pictorial representations included.

Greater Depth Investigate which 3-digit addition calculation is the odd one out. Includes crossing of tens and/or hundreds. Numerals and words used. No column format provided.





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

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

Add Two 3-Digit Numbers 2

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1a. Which digits are hidden underneath the splats?

	H	T	O
	5		
+			3
	6	6	9



PS




1b. Which digits are hidden underneath the splats?

	H	T	O
			8
+		2	
	4	6	3



PS

2a. Use digit cards from 0 – 9 to create an addition with 1 exchange. The total must be greater than 324 and less than 400.

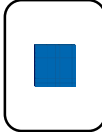

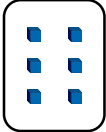
		
+		

Is there more than one possible answer?



PS

2b. Use digit cards from 0 – 9 to create an addition with 1 exchange. The total must be less than 641 and greater than 498.

		
+		




Is there more than one possible answer?





PS

3a. Which calculation is the odd one out?




A.

	H	T	O
	5		
+		6	3

B.

	H	T	O
	2	2	
+	6		2

C.

	H	T	O
	4	6	
+			3


Explain your answer.





R

3b. Which calculation is the odd one out?



A.

	H	T	O
	1		6
+	2	2	0

B.

	H	T	O
		8	4
+	5	3	

C.

	H	T	O
	5	4	
+	3		2

Explain your answer.





R

Add Two 3-Digit Numbers 2

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4a. Which digits are hidden underneath the splats?

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



PS

4b. Which digits are hidden underneath the splats?

	7		
+	1	4	2
<hr/>			
	8	8	1
<hr/>			



PS

5a. 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.

	<input type="text"/>	<input type="text"/>	<input type="text"/>
+	<input type="text"/>	<input type="text"/>	<input type="text"/>
<hr/>			
	<input type="text"/>	<input type="text"/>	<input type="text"/>

Is there more than one possible answer?



PS

5b. 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 782 and less than 858.

	<input type="text"/>	<input type="text"/>	<input type="text"/>
+	<input type="text"/>	<input type="text"/>	<input type="text"/>
<hr/>			
	<input type="text"/>	<input type="text"/>	<input type="text"/>




Is there more than one possible answer?



PS

6a. Which calculation is the odd one out?

A.	<input type="text"/>	2	2	8	B.	<input type="text"/>	3	4	9
	+	6	7	3		+	5	5	2
<hr/>					<hr/>				
<input type="text"/>					<input type="text"/>				
<hr/>					<hr/>				
<input type="text"/>					<input type="text"/>				

	H	T	O
			
2	5	1	




Explain your answer.



R

6b. Which calculation is the odd one out?

A.	<input type="text"/>	6	5	5	B.	<input type="text"/>	2	0	9
	+	1	2	8		+	7	6	3
<hr/>					<hr/>				
<input type="text"/>					<input type="text"/>				
<hr/>					<hr/>				
<input type="text"/>					<input type="text"/>				

	H	T	O
			
4	3	8	

Explain your answer.

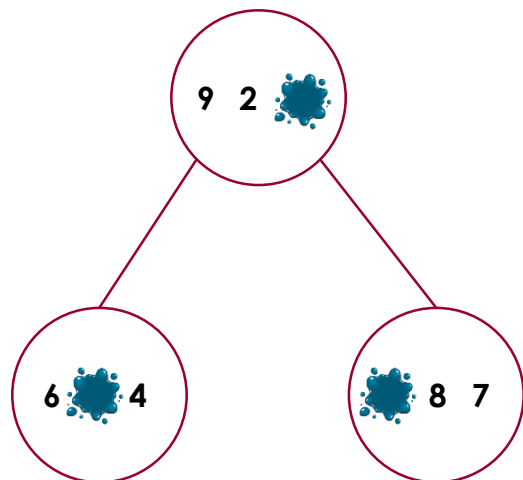


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Add Two 3-Digit Numbers 2

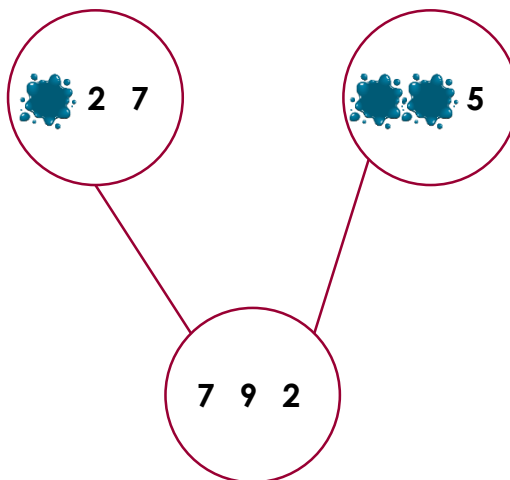
Add Two 3-Digit Numbers 2

7a. Which digits are hidden underneath the splats?



PS

7b. Which digits are hidden underneath the splats?



PS

8a. 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 760 and less than 780.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Is there more than one possible answer?



PS

8b. 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.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Is there more than one possible answer?



PS

9a. Which calculation is the odd one out?

A.	?	
	three hundred and eighty-eight	534
B.	?	
	three hundred and thirty-nine	six hundred and three
C.	?	
	641	two hundred and eighty-one

Explain your answer.



R

9b. Which calculation is the odd one out?

A.	?	
	505	two hundred and ninety-eight
B.	?	
	three hundred and twenty-nine	five hundred and ninety-four
C.	?	
	six hundred and twenty-four	179

Explain your answer.



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Reasoning and Problem Solving Add Two 3-Digit Numbers 2

Developing

- 1a. 6 ones; 4 tens
2a. Various answers, for example:
 $238 + 145 = 383$
3a. C is the odd one out because it equals 857 whereas both A and B total 838.

Expected

- 4a. 3 hundreds; 5 ones
5a. Various answers, for example:
 $216 + 435 = 651$
6a. C is the odd one out because it equals 836 whereas both A and B total 901.

Greater Depth

- 7a. 1 one; 3 tens and 2 hundreds
8a. Various answers, for example:
 $609 + 153 = 762$.
9a. B is the odd one out because it equals 942 whereas both A and C total 922.

Reasoning and Problem Solving Add Two 3-Digit Numbers 2

Developing

- 1b. 1 hundred; 3 tens
2b. Various answers, for example:
 $166 + 214 = 380$
3b. A is the odd one out because it equals 376 whereas both B and C total 916.

Expected

- 4b. 3 tens; 9 ones
5b. Various answers, for example:
 $537 + 248 = 785$
6b. A is the odd one out because it equals 783 whereas both B and C total 972.

Greater Depth

- 7b. Various answers, for example: 4 hundreds, 3 hundreds and 6 tens.
8b. Various answers, for example:
 $249 + 567 = 816$.
9b. B is the odd one out because it equals 923 whereas both A and C total 803.