Add a Two-digit and Three-digit Number – Crossing 10 or 100

3

Fluency & Reasoning Teaching Slides

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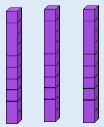
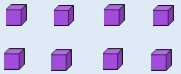
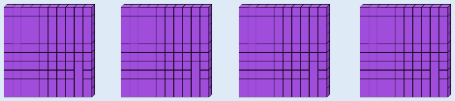
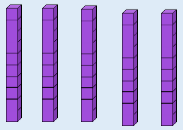
Activity 1

Add a Two-digit and Three-digit Number – Crossing 10 or 100

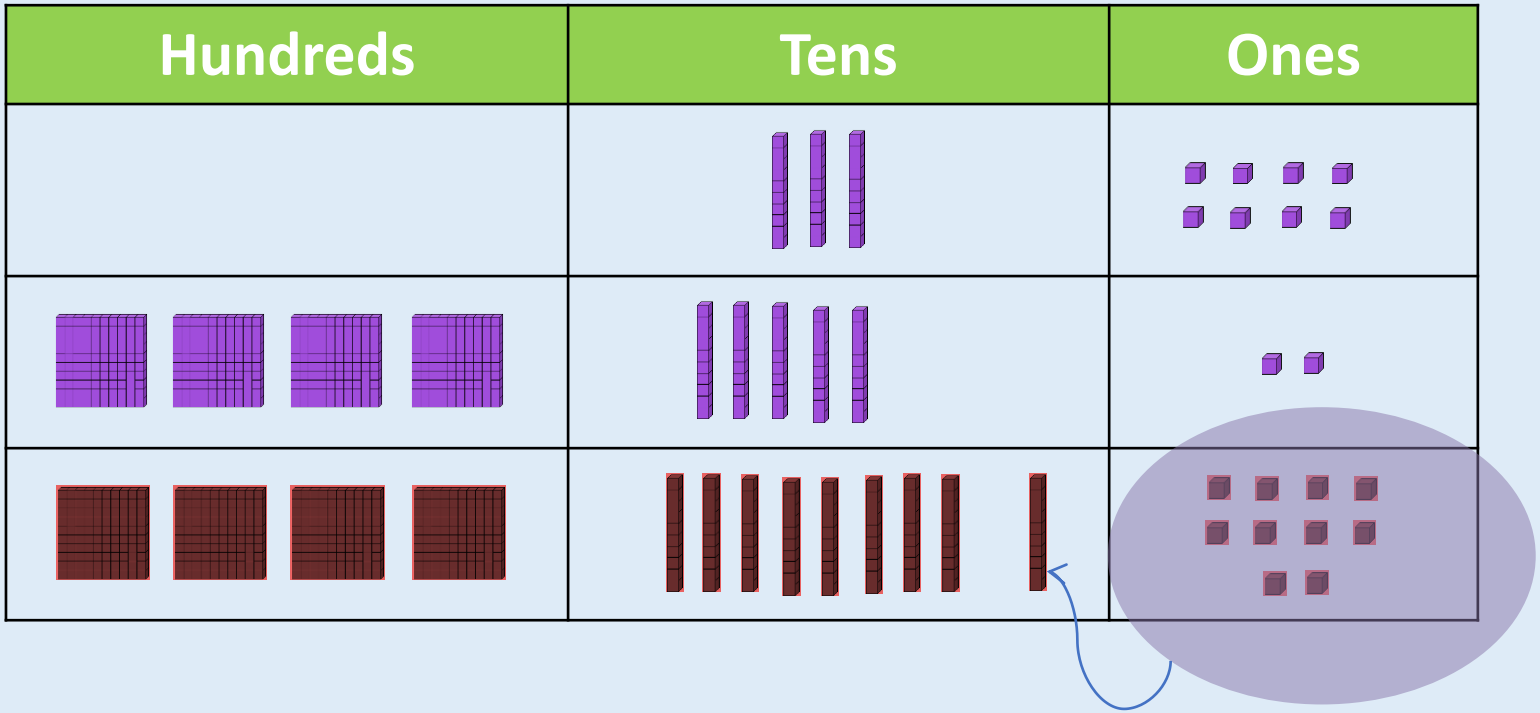
Here is 38 + 452 = ? shown using base 10.
Can you see the numbers shown below?
Add the amounts together.

Hundreds	Tens	Ones
		
		

Activity 1

Add a Two-digit and Three-digit Number – Crossing 10 or 100

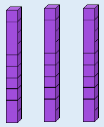
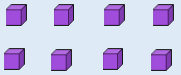
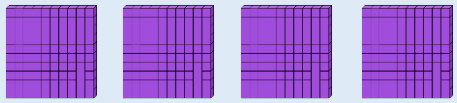
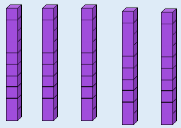
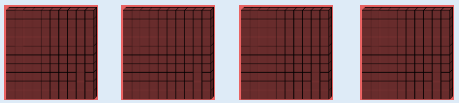
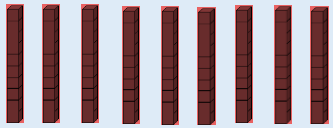
Did you get this? When we add them together we have 10 ones which we can't have in the ones column so we need to put those ten in the tens column by adding another ten rod to the tens.



Activity 1

Add a Two-digit and Three-digit Number – Crossing 10 or 100

So, 38 + 452 = 490

Hundreds	Tens	Ones
		
		
		

Activity 2

Add a Two-digit and Three-digit Number – Crossing 10 or 100

Draw the calculations using base 10. How many 100 squares, tens rods and ones? Work out the answers.

45 + 264

357 + 53

329 + 68

864 + 99

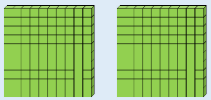
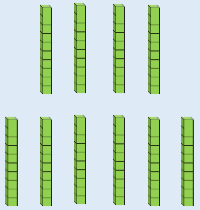
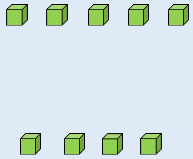
275 + 25

Activity 2

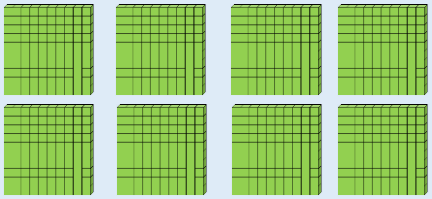
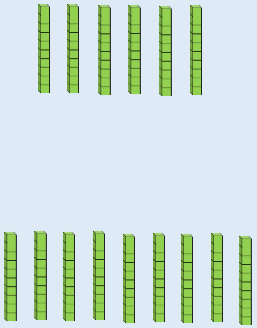
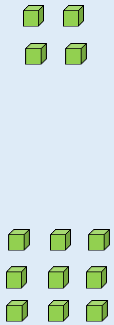
Add a Two-digit and Three-digit Number – Crossing 10 or 100

Did you get these answers?

45 + 264 = 309

Hundreds	Tens	Ones
		

864 + 99 = 963

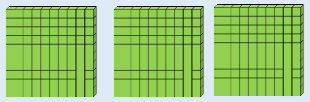
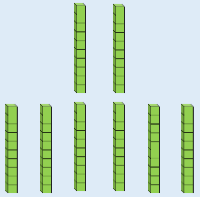
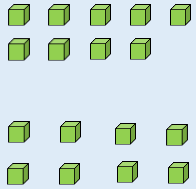
Hundreds	Tens	Ones
		

Activity 2

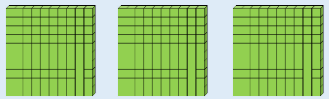
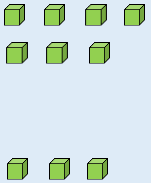
Add a Two-digit and Three-digit Number – Crossing 10 or 100

And these?

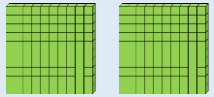
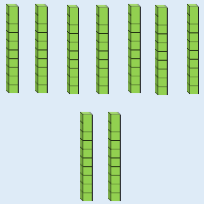
329 + 68 = 397

Hundreds	Tens	Ones
		

357 + 53 = 410

Hundreds	Tens	Ones
		

275 + 25 = 300

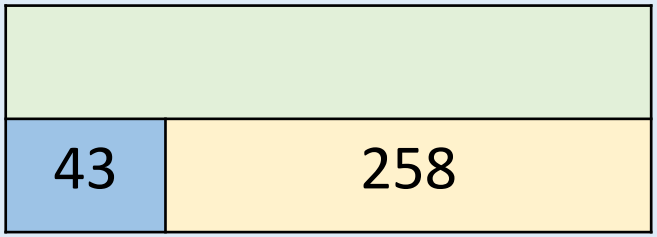
Hundreds	Tens	Ones
		

Activity 3

Add a Two-digit and Three-digit Number – Crossing 10 or 100

Let's remember how to use column addition.
Remember: start adding the ones, then tens then hundreds.

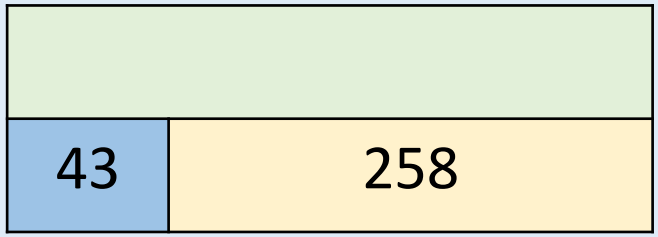
So, 8 + 3 = 11. We put the 1 of the 11 under the tens column.



	H	T	O
	2	5	8
+		4	3
			1
		1	

Add a Two-digit and Three-digit Number – Crossing 10 or 100

Then, we add 5 + 4 + 1 = 10.
The 1 of the ten goes under the hundreds column.



	H	T	O
	2	5	8
+		4	3
		0	**1**
	1	1	

Add a Two-digit and Three-digit Number – Crossing 10 or 100

Then, we add 2 + 1 = 3
So the answer is 301.

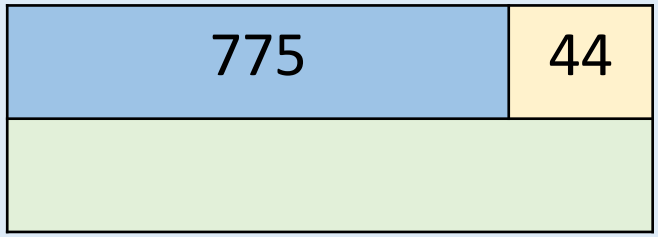
301	
43	258

	H	T	O
	2	5	8
+		4	3
	3	**0**	**1**
	1	1	

Activity 3

Add a Two-digit and Three-digit Number – Crossing 10 or 100

How did you do? Have a go at this one!



	H	T	O
	7	7	5
+		4	4

Activity 3

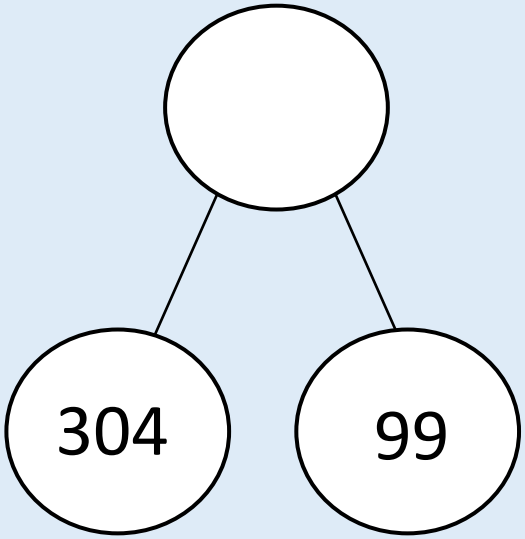
Add a Two-digit and Three-digit Number – Crossing 10 or 100

How did you do?
Have a go at the part whole model one.

775	44
819	

	H	T	O
	7	7	5
+		4	4
	8	**1**	**9**

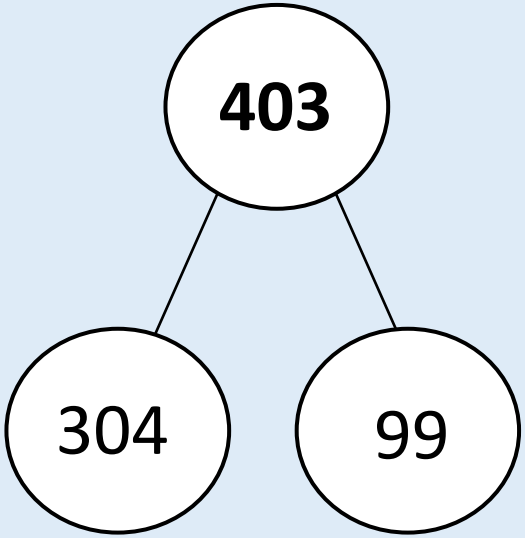
1



	H	T	O
+			

Add a Two-digit and Three-digit Number – Crossing 10 or 100

How did you do?



	H	T	O
	3	0	4
+		9	9
	4	**0**	**3**

1 1

Activity 4

Add a Two-digit and Three-digit Number – Crossing 10 or 100

Solve these calculations using column addition.

67 + 567

647 + 33

777 + 55

835 + 86

Activity 4

Add a Two-digit and Three-digit Number – Crossing 10 or 100

How did you do?

67 + 567

	H	T	O
		6	7
+	5	6	7
	6	**3**	**4**
	1	1	

647 + 33

	H	T	O
	6	4	7
+		3	3
	6	**8**	**0**
		1	

777 + 55

	H	T	O
	7	7	7
+		5	5
	8	**3**	**2**
	1	1	

835 + 86

	H	T	O
	8	3	5
+		8	6
	9	**2**	**1**
	1	1	

Reasoning 1

Malachi is working out 265 + 67.

Malachi

265 + 67 = 222

Here is his working out:

	H	T	O
	2	6	5
+		6	7
	2	**2**	**3**

Is he correct? Explain why.

Add a Two-digit and Three-digit Number – Crossing 10 or 100

Malachi is working out 265 + 67.

Malachi

265 + 67 = 222

Here is his working out:

	H	T	O
	2	6	5
+		6	7
	2	**2**	**2**

Is he correct? Explain why.

Malachi is incorrect because he has not exchanged 10 ones for 1 ten or 10 tens for 1 hundred.

The answer should be 332.