

Add and Subtract Three-digit and Two- digit Numbers - Not Crossing 100

3

Fluency & Reasoning Teaching Slides



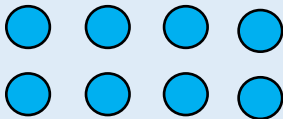
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Activity 1a

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Look at the number sentence below. 50 is 5 tens. If we add 5 tens to the 2 tens in the chart what number do we make?



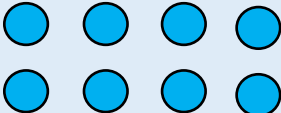
Hundreds	Tens	Ones
		

$$328 + 50 = \underline{\hspace{2cm}}$$


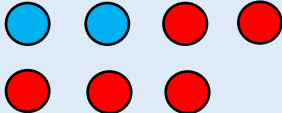
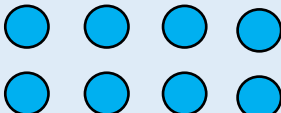
Activity 1a

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Did you make 378?

Hundreds	Tens	Ones
		



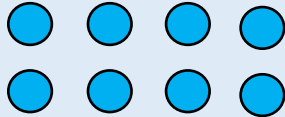
$$328 + 50 = \underline{\hspace{2cm}} \textcolor{red}{378}$$

Hundreds	Tens	Ones
		

Activity 1b

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Look at the number sentence below. 20 is 2 tens. If we subtract 2 tens from the 2 tens in the chart what do we make?



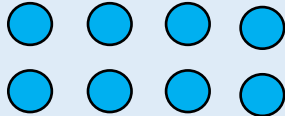
Hundreds	Tens	Ones
		

$$328 - 20 = \underline{\hspace{2cm}}$$



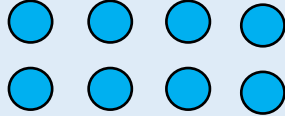
Activity 1

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Did you make 308?

Hundreds	Tens	Ones
		

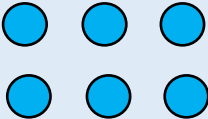
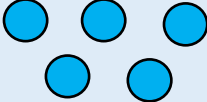

$$328 - 20 = \underline{\hspace{2cm}} \textcolor{red}{308}$$

Hundreds	Tens	Ones
		

Activity 2

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Have a go at these number sentences.
What are the answers?

Hundreds	Tens	Ones
		

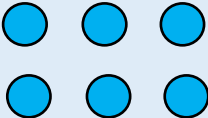
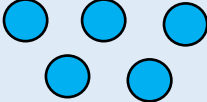

$$653 + 30 = \underline{\hspace{2cm}}$$

$$653 - 30 = \underline{\hspace{2cm}}$$

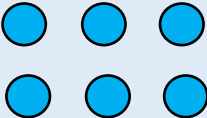
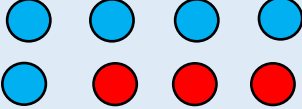

Activity 2

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Did you make 683

Hundreds	Tens	Ones
		

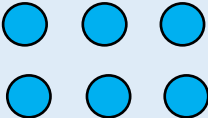
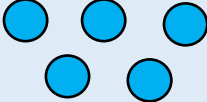

$$653 + 30 = \underline{\quad 683 \quad}$$

Hundreds	Tens	Ones
		

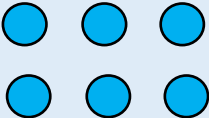
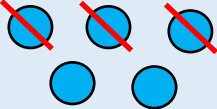

Activity 2

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Did you make 623?

Hundreds	Tens	Ones
		

$$653 - 30 = \underline{\quad 623 \quad}$$

Hundreds	Tens	Ones
		

Activity 3

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

To solve 685 minus 40, we can use our column subtraction or build it and draw it, write a sensible word problem or explain it.

Copy the column subtraction. Can you work it out?

Calculate	<table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>8</td><td>5</td></tr><tr><td>–</td><td></td><td>4</td><td>0</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>						6	8	5	–		4	0					Build it and draw it
	6	8	5															
–		4	0															
Sensible word problem		Explain																

Activity 3

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Did you get 645? Can you draw it using base 10?

Calculate

	6	8	5
–		4	0
<hr/>			
	6	4	5

Build it and draw it

Sensible word problem

Explain

Activity 3

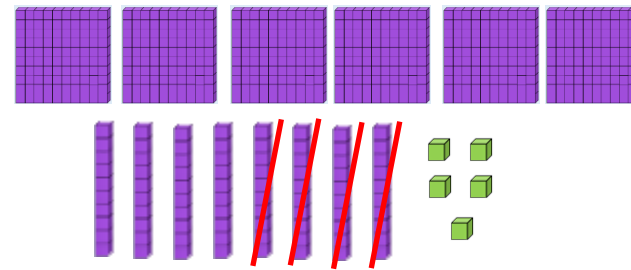
Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Does your drawing look like this?
Can you write a sensible word problem?

Calculate

	6	8	5
-		4	0
	6	4	5

Build it and draw it



Sensible word problem

Explain

Activity 3

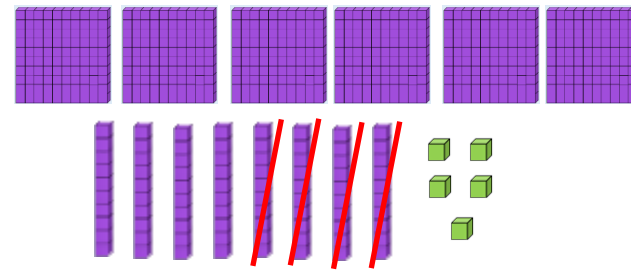
Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Here's a sensible word problem. Can you explain it?

Calculate

	6	8	5
-		4	0
	6	4	5

Build it and draw it



Sensible word problem

Blue team had 685 points and won the game.
Red team finished second with 40 less points than Blue team.
How many points does the Red team have?

Explain

Activity 3

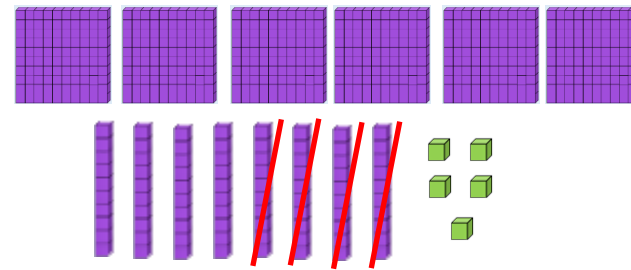
Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Here's a sensible word problem. Can you explain it?

Calculate

	6	8	5
-		4	0
	6	4	5

Build it and draw it



Sensible word problem

Blue team had 685 points and won the game.
Red team finished second with 40 less points than Blue team.
How many points does the Red team have?

Explain

You minus the forty less from the Blue teams six hundred and eighty five to get six hundred and forty five.

Activity 4

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Complete to solve 252 minus 30.

Calculate	<table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>-</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>									-								Build it and draw it
-																		
Sensible word problem	Explain																	

Activity 4

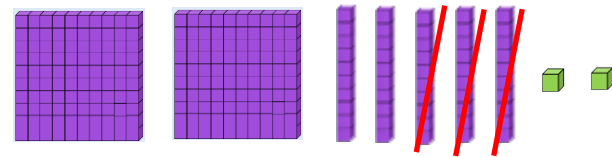
Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100

Does yours look like this?

Calculate

	2	5	2
–		3	0
	2	2	2

Build it and draw it



Sensible word problem

252 parents joined the meeting.
30 parents left the meeting early.
How many parents were left?

Explain

Two hundred and fifty-two minus thirty equals two hundred and twenty-two.

Reasoning 1

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100



Leanna

$368 - 50$ is equal to 363.

Is Leanna correct?
Explain what the answer is.

Reasoning 1

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100



Leanna

$368 - 50$ is equal to 363.

What should the answer be?

No she is not correct.
Leanna has subtracted
5 ones instead of 5
tens.
The answer should be
318.

Reasoning 2

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100



Tia

$$292 - 30 = 262$$

When I calculated 292 minus 30, I used my known fact that $9 - 3 = 6$.

Explain Tia's method.

Reasoning 2

Add and Subtract Three-digit and Two-digit Numbers – Not Crossing 100



Tia

Explain Tia's method.

$$292 - 30 = 262$$

When I calculated 292 minus 30, I used my known fact that $9 - 3 = 6$.

Tia was able to use the fact because 9 tens minus 3 tens is similar to 9 ones minus 3 ones. We do not need to subtract any ones or hundreds so those columns will stay the same.