



Colin and Coco's Deliberate Practice

Year 3 Unit 5

Addition and Subtraction
Mental Methods





Contents

This pack of deliberate practice is designed to be used flexibly to secure the manageable steps of this unit.

The table below indicates which activities are linked to which manageable steps.

	Do It	Challenge It	Play It
Subtract ones from three-digit numbers using number facts where the tens don't change	1	1	1
Subtract ones from three-digit numbers using bridging	1	1	1
Subtract ones from three-digit numbers by rounding to ten then compensating	1		1
Subtract tens from three-digit numbers using number facts where the hundreds don't change	2		2
Subtract tens from three-digit numbers using bridging	2		2
Subtract hundreds from three-digit numbers using number facts	2		2
Subtract from three-digit numbers using rounding and compensating		2	
Subtract two 3-digit numbers using partitioning no exchanging		3	
Subtract by finding the difference between two 3-digit numbers with the same hundreds digits	3		3
Subtract by finding the difference between two numbers with different hundreds digits	3		3



Calculate:

Do It 1

$217 - 3 =$		$213 - 7 =$		$246 - 9 =$	
$218 - 5 =$		$225 - 8 =$		$521 - 9 =$	
$347 - 6 =$		$346 - 7 =$		$685 - 9 =$	
$537 - 5 =$		$535 - 7 =$		$304 - 9 =$	

Challenge It 1

Match the calculation to the answer.
Find the missing buddies.

454 - 7		438
475 - 4		424
445 - 7		415
		471
432 - 8		478
483 - 5		423
458 - 8		
423 - 8		427
428 - 5		450



Subtract Ones Game

Play It 1

You need:

0 - 9 dice

To play:

Take it in turns to roll the dice to make a three-digit number and a one-digit number. Subtract the one-digit number from the three-digit number.

The player with the largest answer scores a point.

To win:

The winner is the first player to score 10 points.

Play again scoring a point for the smallest answer.

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Calculate:

Do It 2

$235 - 20 =$		$325 - 40 =$		$564 - 300 =$	
$261 - 40 =$		$437 - 60 =$		$736 - 200 =$	
$573 - 60 =$		$652 - 80 =$		$807 - 200 =$	
$681 - 30 =$		$702 - 70 =$		$999 - 500 =$	

Put digits in the empty boxes to make the calculations correct.

Challenge It 2

Complete each one in several different ways.

$$\begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} 7 - 99 = \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$
$$\begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array} - 199 = \begin{array}{|c|c|} \hline \square & 1 \\ \hline \end{array} \begin{array}{|c|} \hline \square \\ \hline \end{array}$$

Now complete both statements using the digits 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each and using one of the digits twice.



Subtract Tens and Hundreds Game

Play It 2

You need: 0 - 9 cards

To play:

Pick Game Template 1 or 2

Shuffle the cards and place them face down.

Take turns to turn over a card and place the digit in the Game Template.

Once a digit is placed it cannot be moved.

Both players now find the answer to their calculation using an efficient strategy.

The player who calculates the smallest answer scores a point.

To win:

The winner is the first player to score 10 points.

Play again scoring points for the largest answer.

Game 1

			-		0
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Game 2

			-		0	0
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Do It 3

Use an efficient mental strategy and jottings to calculate:

$267 - 263 =$		$302 - 297 =$		$106 - 98 =$	
$545 - 542 =$		$404 - 398 =$		$201 - 98 =$	
$698 - 693 =$		$501 - 496 =$		$901 - 799 =$	
$787 - 781 =$		$604 - 592 =$		$998 - 889 =$	

Match the calculation to the answer.
Find the missing buddies.

Challenge It 3

563 - 132	321
687 - 345	421
945 - 624	333
	162
789 - 456	120
853 - 531	431
886 - 724	
799 - 679	342
565 - 341	322



Difference Game

Play It 3

You need:
0 - 9 cards

To play:
Both players pick 4 cards to complete the two 3-digit numbers in the template.

Players calculate the difference between their numbers.
The player with the smallest difference scores a point.

To win:
The winner is the first player to score 10 points.

	0		-		9	
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