



Colin and Coco's Deliberate Practice

Year 4 Unit 4

Addition and Subtraction
Mental Methods Addition





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
Add ones to 4-digit numbers (where the thousands change)	1		1
Add tens to 4-digit numbers (where the hundreds change)	1	1	1
Add tens to 4-digit numbers (where the thousands change)	1	1	1
Add hundreds to 4-digit numbers (where the thousands change)		2	
Add 3-digit number to 4-digit number using rounding to the nearest hundred and then compensating	2		
Add two 4-digit numbers using rounding to the nearest thousand and then compensating	2		
Add two 3-digit numbers where the sum exceeds 1000, choosing an efficient mental strategy			2



Do It 1

Use an efficient mental strategy and jottings to calculate:

$1998 + 4 =$		$2385 + 40 =$		$2945 + 80 =$	
$2997 + 5 =$		$3473 + 50 =$		$3953 + 70 =$	
$4998 + 6 =$		$4762 + 60 =$		$4962 + 60 =$	
$9 + 7999 =$		$90 + 8752 =$		$80 + 8952 =$	

Challenge It 1

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

$3482 + 50$	3642
$2982 + 60$	3032
$3572 + 80$	3532
	4082
$3982 + 50$	3432
$2962 + 70$	3042
$3992 + 90$	
$3942 + 70$	4032
$3382 + 50$	3652



Add Ones and Tens Game

Play It 1

You need:
0 - 8 cards

To play:

Pick Game Template 1, 2 or 3

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 largest total scores a point.

To win:

The winner is the first player to score 10 points.

Play again scoring points for the lowest total.

Game 1

	9	9		+	
--	---	---	--	---	--

Game 2

		8		+		0
--	--	---	--	---	--	---

Game 3

	9	8		+		0
--	---	---	--	---	--	---



Do It 2

Use an efficient mental strategy and jottings to calculate:

$3248 + 199 = \square$	$2385 + 1999 = \square$	$2945 + 198 = \square$
$2265 + 599 = \square$	$3473 + 3999 = \square$	$3954 + 1998 = \square$
$4682 + 799 = \square$	$4762 + 4999 = \square$	$4967 + 297 = \square$
$999 + 7999 = \square$	$7999 + 1752 = \square$	$2999 + 6859 = \square$

Put digits in the empty boxes to complete each statement in several different ways.

Challenge It 2

$$\square\square\square\square + \square 0 0 = \square 0 \square\square$$

$$\square 2 \square\square = \square 8 \square\square + \square 0 0$$

Now complete both statements using the digits 1, 2, 3, 4, 5, 6, 7, 8 and 9 at least once.



Exceed 1000 Game

Play It 2

You need:

Two sets of 5 - 9 cards

To play:

Pick Game Template 1, 2 or 3

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 largest total scores a point.

To win:

The winner is the first player to score 10 points.

Play again scoring points for the lowest total.

Game 1

	0		+			0
--	---	--	---	--	--	---

Game 2

			+		9	9
--	--	--	---	--	---	---