



Colin and Coco's Deliberate Practice

Year 3 Unit 7

Addition and Subtraction **Answers**
Written 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
Use column addition for two 3-digit numbers when regrouping is required in the ones column	1	1	
Use column addition for two 3-digit numbers when regrouping is required in the tens column	1		
Use column addition for two 3-digit numbers when regrouping is required in multiple columns			1
Use column addition for 3-digit and 2-digit numbers when regrouping is required in the ones column	2		
Use column addition for 3-digit and 2-digit numbers when regrouping is required in the tens column	2		
Use column addition for 3-digit and 2-digit numbers when regrouping is required in multiple columns		2	
Choose efficient methods to add numbers with up to 3-digits			2



Use a formal written method to calculate:

- | | | | |
|------------------|------------|-------------------|------------|
| 1. $638 + 254 =$ | 892 | 7. $163 + 352 =$ | 515 |
| 2. $357 + 226 =$ | 583 | 8. $357 + 261 =$ | 618 |
| 3. $326 + 657 =$ | 983 | 9. $456 + 381 =$ | 837 |
| 4. $264 + 327 =$ | 591 | 10. $265 + 184 =$ | 449 |
| 5. $327 + 353 =$ | 680 | 11. $178 + 351 =$ | 529 |
| 6. $716 + 164 =$ | 880 | 12. $663 + 274 =$ | 937 |

Challenge It 1

Find the missing digits.

Solve them in several ways so there is no regrouping.

Solve them in several ways so there is regrouping in the ones column only.

$$\begin{array}{r} 2 \boxed{4} 6 \\ + \boxed{1} 3 \boxed{9} \\ \hline 3 \boxed{8} \boxed{5} \end{array}$$

$$\begin{array}{r} \boxed{2} 8 \boxed{7} \\ + 4 \boxed{0} 6 \\ \hline \boxed{6} 9 \boxed{3} \end{array}$$

Possible solution

Solve them together using the digits 0 - 9 once each.



3-Digit Addition Game

Play It 1

You need:

0 - 9 cards

Game Template for each player

To play:

Use the Game Template.

Shuffle the cards and place them face down.

Deal 4 cards to each player.

Players aim to create numbers so that there is regrouping of the ones and the tens.

Once both players have made two 3-digit numbers they find the answer to their calculation.

If regrouping is needed in the tens column they score one point.

If regrouping is needed in the ones column they score one point.

The player who calculates the greatest 3-digit total scores a bonus point.

To win:

The winner is the first player to score 10 points.

	3		5
+			



Do It 2

Use a formal written method to calculate:

- | | | | |
|-----------------|------------|------------------|------------|
| 1. $638 + 45 =$ | 683 | 7. $648 + 71 =$ | 719 |
| 2. $257 + 27 =$ | 284 | 8. $136 + 62 =$ | 198 |
| 3. $436 + 58 =$ | 494 | 9. $463 + 56 =$ | 519 |
| 4. $66 + 327 =$ | 393 | 10. $55 + 363 =$ | 418 |
| 5. $74 + 318 =$ | 392 | 11. $77 + 361 =$ | 438 |
| 6. $68 + 627 =$ | 695 | 12. $63 + 164 =$ | 227 |

Challenge It 2

Use the digits 6, 7, 8 and 9 to make as many different totals as you can.

$$\begin{array}{r} 2 \square \square \\ + \quad \square \square \\ \hline \\ \hline \end{array}$$

Using the digits 5, 6, 7 and 8 how many different ways can you make the total 325?



How will I Add? Activity

Play It 2

You need: 0 - 9 cards

To play: (This is a collaborative activity.)

Shuffle the cards.

Each player is dealt three cards and makes a 3-digit number.

Look at the two numbers and choose two different methods to add them.

Discuss which was the most efficient method and why.

List your calculations under a method heading, such as Formal written method, Partition and recombine, Round and adjust.

Deal again and create two new numbers.

Repeat this lots of times. Are some methods used more often than others?

What do you notice about pairs of numbers that appear under the same heading?

Play again with one of the players making a 2-digit number.