



Colin and Coco's Deliberate Practice

Year 4 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
Add two 4-digit numbers, no regrouping	1	1	
Use column addition for two 4-digit numbers when regrouping is required in the ones column	1	1	
Use column addition for two 4-digit numbers when regrouping is required in the tens column			1
Use column addition for two 4-digit numbers when regrouping is required in the hundreds column	2		
Use column addition for two 4-digit numbers when regrouping is required in multiple columns	2	2	
Use column addition for two 3-digit numbers where the sum exceeds 1000			2
Use column addition for 4-digit and 3-digit numbers when regrouping is required in multiple columns	3	3	3
Use column addition for 4-digit and 2-digit numbers when regrouping is required in multiple columns	3	3	3



Do It 1

Use a formal written method to calculate:

- | | | | |
|--------------------|-------------|---------------------|-------------|
| 1. $1638 + 4251 =$ | 5889 | 7. $1638 + 3257 =$ | 4895 |
| 2. $2357 + 5222 =$ | 7579 | 8. $1357 + 4226 =$ | 5583 |
| 3. $4326 + 1653 =$ | 5979 | 9. $4226 + 3656 =$ | 7882 |
| 4. $3264 + 3324 =$ | 6588 | 10. $5265 + 3125 =$ | 8390 |
| 5. $3275 + 3523 =$ | 6798 | 11. $4178 + 3519 =$ | 7697 |
| 6. $7162 + 1627 =$ | 8789 | 12. $6163 + 1607 =$ | 7770 |

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.

$$\begin{array}{r} 1 \boxed{3} \boxed{7} \boxed{8} \\ + 2 \boxed{4} 1 2 \\ \hline 3 7 9 \boxed{0} \end{array}$$

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

Possible solution

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



Adding 4-digit Numbers 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.

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

Once a digit is placed it cannot be moved.

Create numbers so that there is only regrouping of the tens.

Once both players have made two 4-digit numbers both players find the answer to their calculation.

If regrouping is needed in a column other than the tens, you are 'bust' and the other player wins a point for that round.

Otherwise, the player who calculates the largest total scores a point.

To win:

The winner is the first player to score 10 points.

$$\begin{array}{cccc} \boxed{} & \boxed{3} & \boxed{5} & \boxed{} \\ + & \boxed{1} & \boxed{} & \boxed{2} \\ \hline \\ \hline \end{array}$$



Use a formal written method to calculate:

- | | | | |
|--------------------|-------------|---------------------|-------------|
| 1. $1738 + 4551 =$ | 6289 | 7. $1647 + 2778 =$ | 4425 |
| 2. $2457 + 5822 =$ | 8279 | 8. $1487 + 1794 =$ | 3281 |
| 3. $4624 + 1653 =$ | 6277 | 9. $4546 + 3676 =$ | 8222 |
| 4. $3625 + 3824 =$ | 7449 | 10. $5865 + 3735 =$ | 9600 |
| 5. $3875 + 3512 =$ | 7387 | 11. $4876 + 3538 =$ | 8414 |
| 6. $7861 + 1626 =$ | 9487 | 12. $6393 + 1607 =$ | 8000 |

Find the missing digits.
Solve them in several ways.
Solve them so there is regrouping three columns.

$$\begin{array}{r} 3 \boxed{4} \boxed{5} \boxed{6} \\ + 2 \boxed{8} 7 4 \\ \hline 6 3 3 \boxed{0} \\ \hline \end{array}$$

$$\begin{array}{r} 2 \boxed{7} 5 \boxed{3} \\ + 3 3 8 \boxed{9} \\ \hline 6 \boxed{1} 4 \boxed{2} \\ \hline \end{array}$$

Possible solution

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



Do It 3

Use a formal written method to calculate:

- | | | | |
|-------------------|-------------|-------------------|-------------|
| 1. $4838 + 764 =$ | 5602 | 7. $5447 + 78 =$ | 5525 |
| 2. $3457 + 748 =$ | 4205 | 8. $6387 + 64 =$ | 6451 |
| 3. $4614 + 568 =$ | 5182 | 9. $6546 + 76 =$ | 6622 |
| 4. $2625 + 483 =$ | 3108 | 10. $67 + 4775 =$ | 4842 |
| 5. $384 + 3827 =$ | 4211 | 11. $48 + 3678 =$ | 3726 |
| 6. $965 + 2056 =$ | 3021 | 12. $63 + 6088 =$ | 6151 |

Find the missing digits.
Solve them in several ways.

Challenge It 3

$$\begin{array}{r} \boxed{1}4\boxed{6}\boxed{7} \\ + \quad \boxed{8}25 \\ \hline 229\boxed{2} \\ \hline \end{array}$$

$$\begin{array}{r} 4\boxed{5}1\boxed{9} \\ + \quad \quad 84 \\ \hline \boxed{4}6\boxed{0}\boxed{3} \\ \hline \end{array}$$

Possible solution

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



Adding Different Digit Numbers Game

Play It 3

You need:

Two sets of 0 - 9 cards

To play:

Agree a target between 1300 and 1800

Shuffle the cards and deal six cards to each player.

Choose whether to make a 4-digit number and a 2-digit number to add, or make two 3-digit numbers and find the total.

Add your numbers using a formal written method.

The player with the total closest to the target scores a point.

To win:

The winner is the first player to score 10 points.