



# Colin and Coco's Deliberate Practice

Year 4 Unit 13

Addition and Subtraction: Decimals





# 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 mental strategies to add numbers with 1 dp                                              | 1     |              |         |
| Use mental strategies to add numbers with 2 dp                                              |       | 1            |         |
| Use columnar addition for numbers with 2 decimal places with regrouping (carrying) required |       |              | 1       |
| Use mental strategies to subtract numbers with 1 dp                                         | 2     |              |         |
| Use mental strategies to subtract numbers with 2 dp                                         |       | 2            |         |
| Use columnar subtraction for numbers with 2 decimal places with exchanging required         |       |              | 2       |



Do It 1

Calculate:

|               |                      |               |                      |               |                      |
|---------------|----------------------|---------------|----------------------|---------------|----------------------|
| $0.2 + 0.4 =$ | <input type="text"/> | $0.6 + 0.3 =$ | <input type="text"/> | $1.1 + 1.5 =$ | <input type="text"/> |
| $0.4 + 0.3 =$ | <input type="text"/> | $0.2 + 0.7 =$ | <input type="text"/> | $1.4 + 1.5 =$ | <input type="text"/> |
| $0.3 + 0.5 =$ | <input type="text"/> | $0.6 + 0.2 =$ | <input type="text"/> | $1.5 + 1.2 =$ | <input type="text"/> |
| $0.4 + 0.4 =$ | <input type="text"/> | $0.6 + 0.5 =$ | <input type="text"/> | $1.7 + 0.6 =$ | <input type="text"/> |
| $0.2 + 0.5 =$ | <input type="text"/> | $0.9 + 0.3 =$ | <input type="text"/> | $2.4 + 0.8 =$ | <input type="text"/> |

Challenge It 1

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

|             |  |      |
|-------------|--|------|
| 0.12 + 0.15 |  | 0.58 |
| 1.35 + 0.99 |  | 0.72 |
| 0.26 + 0.32 |  | 0.27 |
|             |  | 0.69 |
| 0.34 + 0.25 |  | 2.34 |
| 0.43 + 0.26 |  | 0.85 |
| 0.42 + 0.43 |  |      |
| 1.21 + 1.15 |  | 0.96 |
| 0.51 + 0.45 |  | 2.36 |



# Add Decimals Game

Play It 1

You need:

0 - 9 dice

Game template

To play:

Use the Game Template.

Players take turns to roll the dice and place the digit in their Game Template.

Once a digit is placed it cannot be moved.

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

The player who calculates the largest total scores a point.

To win:

The winner is the first player to score 10 points.

## Game Template

|   |             |   |             |             |
|---|-------------|---|-------------|-------------|
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Do It 2

Calculate:

|               |                      |               |                      |               |                      |
|---------------|----------------------|---------------|----------------------|---------------|----------------------|
| $0.9 - 0.7 =$ | <input type="text"/> | $1.9 - 0.3 =$ | <input type="text"/> | $1.8 - 1.3 =$ | <input type="text"/> |
| $0.6 - 0.3 =$ | <input type="text"/> | $1.7 - 0.2 =$ | <input type="text"/> | $1.9 - 1.5 =$ | <input type="text"/> |
| $0.7 - 0.4 =$ | <input type="text"/> | $1.8 - 0.2 =$ | <input type="text"/> | $1.6 - 1.2 =$ | <input type="text"/> |
| $0.8 - 0.5 =$ | <input type="text"/> | $1.6 - 0.4 =$ | <input type="text"/> | $2.7 - 2.3 =$ | <input type="text"/> |
| $0.9 - 0.4 =$ | <input type="text"/> | $1.8 - 0.4 =$ | <input type="text"/> | $2.9 - 1.6 =$ | <input type="text"/> |

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

Challenge It 2

|             |  |      |
|-------------|--|------|
| 0.15 - 0.12 |  | 0.13 |
| 0.62 - 0.32 |  | 0.31 |
| 0.36 - 0.23 |  | 0.03 |
|             |  | 0.33 |
| 0.84 - 0.43 |  | 0.3  |
| 0.77 - 0.44 |  | 0.4  |
| 0.72 - 0.32 |  |      |
| 1.39 - 1.35 |  | 0.44 |
| 0.95 - 0.51 |  | 0.04 |



# Subtract Decimal Game

Play It 2

You need:

Two sets of 0 - 9 cards

Game template

To play:

Use the Game Template.

Each player shuffles their 0 - 9 cards and place them face down.

Players take turns to pick a card and place the digit in their Game Template.

Once a digit is placed it cannot be moved.

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

The player who calculates the smallest difference scores a point.

To win:

The winner is the first player to score 10 points.

Game Template

0 - 9 cards

|       |             |   |             |             |
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|   |   |   |
|---|---|---|
| 0 | 1 | 2 |
| 3 | 4 | 5 |
| 6 | 7 | 8 |
| 9 |   |   |