# Homework/Extension Step 3: Add Two 4-Digit Numbers 2

## Teaching Note:

In the Expected and Greater Depth levels, 3-digit numbers have been included to ensure that children have a secure understanding of place value and have the opportunity to address any misconceptions that may arise.

# National Curriculum Objectives:

Mathematics Year 4: (4C2) Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

## Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Add two 4-digit numbers (with only one exchange from the ones to the tens) to identify calculations whose answers contain four given digits. Calculations presented pictorially using place value grids.

Expected Add two 3 or 4-digit numbers (with only one exchange) to identify calculations whose answers contain four given digits. Calculations presented in column format.

Greater Depth Add two 3 or 4-digit numbers (with only one exchange) to identify calculations whose answers contain four given digits. Calculations presented in a linear format with limited pictorial support.

Questions 2, 5 and 8 (Varied Fluency)

Developing Combine 4-digit numbers to make two numbers that match a given criteria. Numbers presented in place value charts.

**Expected** Combine 4-digit numbers to make two numbers that match a given criteria. Calculations presented in column format and numbers represented pictorially and in numerals.

Greater Depth Combine 4-digit numbers to make two numbers that match a given criteria. Numbers written using digits or words.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain if a statement involving the number of exchanges is correct. Calculations presented pictorially using place value grids.

Expected Explain if a statement involving the number of exchanges is correct. Calculations presented in column format.

Greater Depth Explain if a statement involving the number of exchanges is correct. Calculations presented in a linear format using digits or words.

More <u>Year 4 Addition and Subtraction</u> resources.

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Homework/Extension - Add Two 4-Digit Numbers 2 - Teaching Information

# Add Two 4-Digit Numbers 2



Homework/Extension – Add Two 4-Digit Numbers 2 – Year 4 Developing

# Add Two 4-Digit Numbers 2



Homework/Extension – Add Two 4-Digit Numbers 2 – Year 4 Expected



Homework/Extension – Add Two 4-Digit Numbers 2 – Year 4 Greater Depth

## Homework/Extension Add Two 4-Digit Numbers 2

#### Developing

3,246 + 2,124 = 5,370
 4,315 + 2,146 = 6,461 or 2,146 + 1,425 = 3,571; 4,315 + 1,425 = 5,740
 Dylan is correct. If a 6 was rolled for each missing number, there would only be one exchange needed (6 + 9).

### **Expected**

4. 1,271 + 265 = 1,536 and 2,535 + 1,026 = 3,561

5. 5,346 + 2,163 = 7,509 or 2,163 + 4,072 = 6,235; 5,346 + 4,072 = 9,418

6. Bethany is not correct. If a 6 was rolled for each missing digit, there would be two exchanges needed – one in each calculation.

#### Greater Depth

7. 3,495 + 1,412 = 4,907 and 3,611 + 4,329 = 7,940

8. 5,745 + 3,551 = 9,296 or 5,745 + 1,624 = 7,369; 3,551 + 1,624 = 5,175

9. Vanessa is not correct. If a 6 was rolled for each missing digit there would be two exchanges needed - one in each calculation.



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Homework/Extension – Add Two 4-Digit Numbers 2 ANSWERS