

Varied Fluency

Step 4: Add Two 4-Digit Numbers 3

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](#)

Mathematics Year 4: (4C3) [Estimate and use inverse operations to check answers to a calculation](#)

Mathematics Year 4: (4C4) [Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why](#)

Differentiation:

Developing Questions to support adding two 4-digit numbers with up to two exchanges. Pictorial support for all questions, including place value grids.

Expected Questions to support adding two 4-digit numbers with multiple exchanges. Calculations presented in column and linear formats. Some use of zero as a place holder and some pictorial support.

Greater Depth Questions to support adding two 4-digit numbers with multiple exchanges. Calculations presented in linear format. Use of zero as a place holder, with some use of unconventional partitioning.

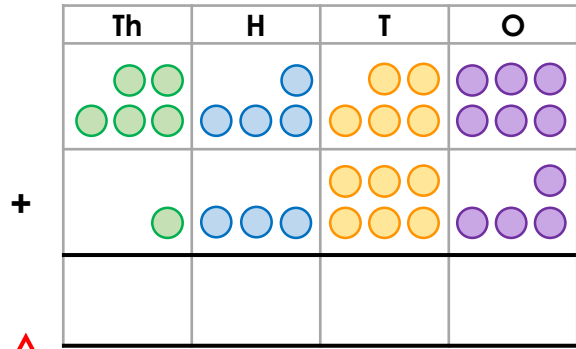
More [Year 4 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

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1a. Complete the calculation below. What is the value of the circled digit?

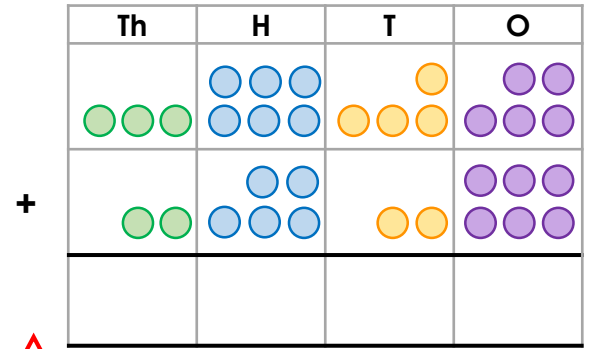


1

1

VF

1b. Complete the calculation below. What is the value of the circled digit?

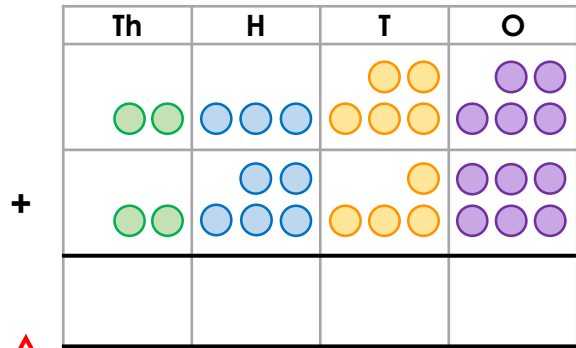


1

1

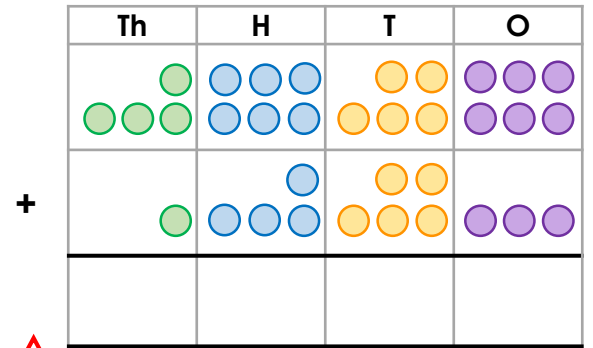
VF

2a. Complete the calculation.



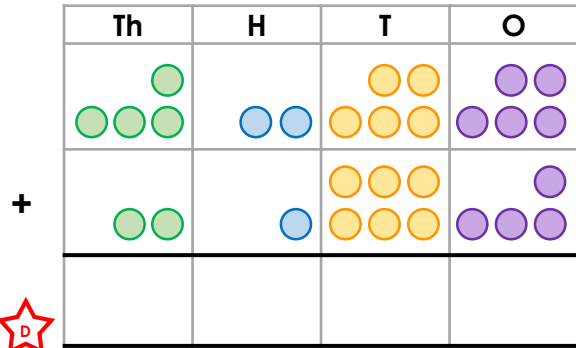
VF

2b. Complete the calculation.



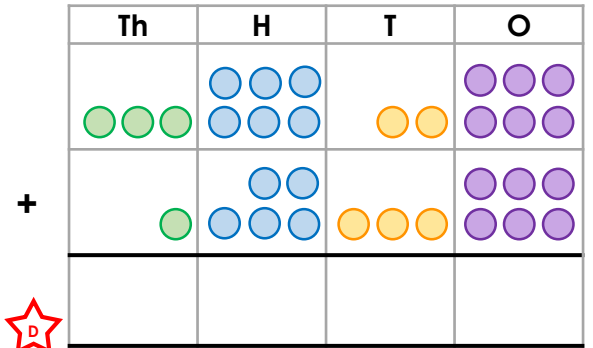
VF

3a. How many exchanges occur in the following calculation?



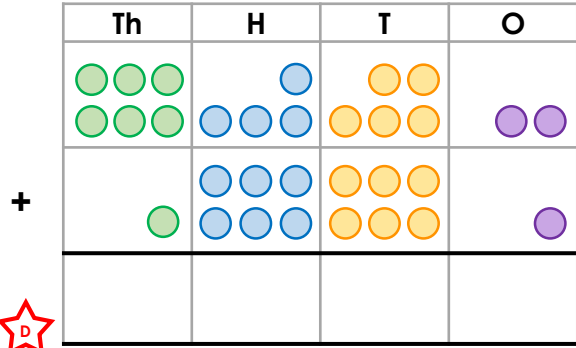
VF

3b. How many exchanges occur in the following calculation?



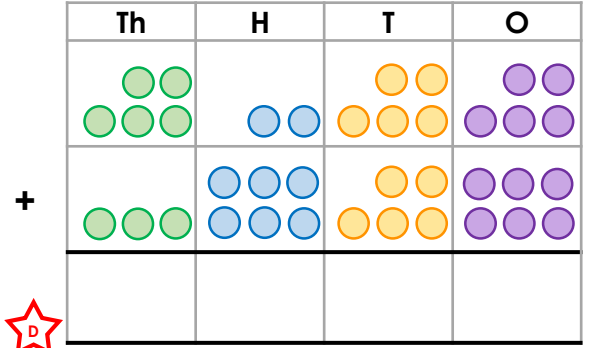
VF

4a. True or false? The calculation below is equal to 7,213.



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4b. True or false? The calculation below is equal to 8,811.

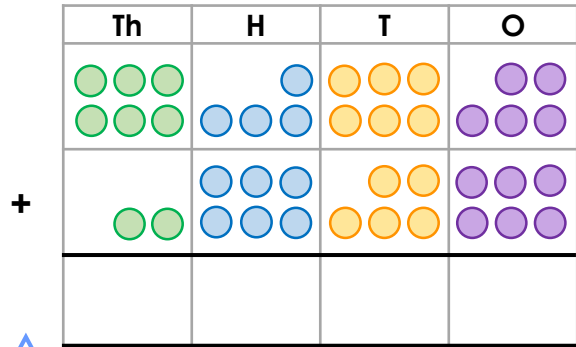


VF

Add Two 4-Digit Numbers 3

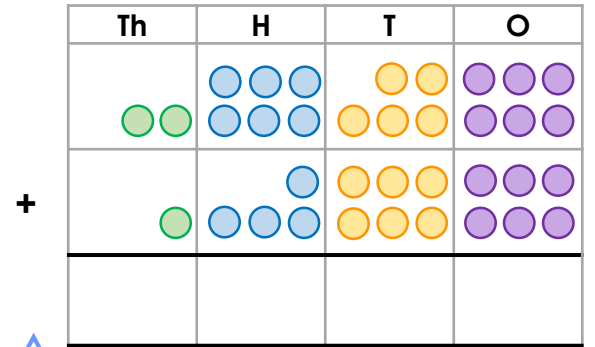
Add Two 4-Digit Numbers 3

5a. Complete the calculation below. What is the value of the circled digit?



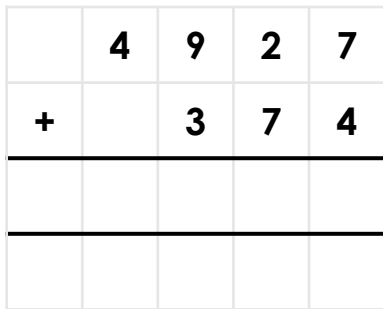
★ 1 1 1 VF

5b. Complete the calculation below. What is the value of the circled digit?



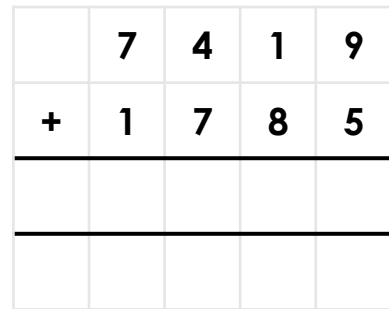
★ 1 1 1 VF

6a. Complete the calculation.



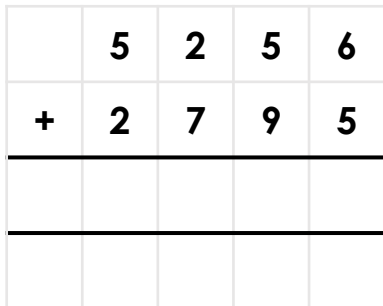
★ VF

6b. Complete the calculation.



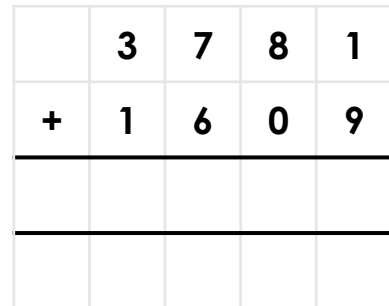
★ VF

7a. How many exchanges occur in the following calculation?



★ VF

7b. How many exchanges occur in the following calculation?



★ VF

8a. True or false? The following calculations are correct.

A. $3,279 + 3,748 = 4,569 + 2,458$

B. $7,328 + 1,868 = 7,295 + 1,911$

★ VF

8b. True or false? The following calculations are correct.

A. $2,363 + 2,859 = 3,569 + 1,753$

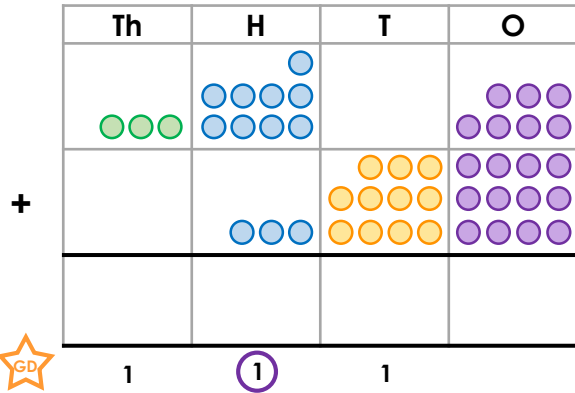
B. $6,562 + 1,589 = 7,963 + 188$

★ VF

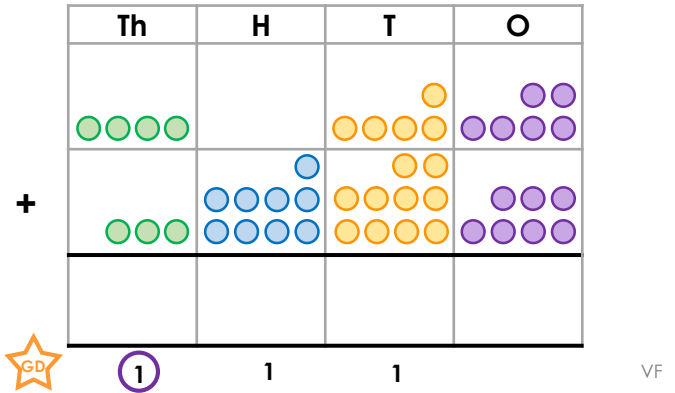
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9a. Complete the calculation below.
What is the value of the circled digit?



9b. Complete the calculation below.
What is the value of the circled digit?



10a. Complete the calculations.

A. $5,998 + 3,254 = \square$

B. $2,038 + 1,986 = \square$

10b. Complete the calculations.

A. $3,908 + 1,293 = \square$

B. $7,259 + 1,784 = \square$

11a. How many exchanges occur in the following calculations?

A. $3,891 + 569 = \square$

B. $6,184 + 1,907 = \square$

11b. How many exchanges occur in the following calculations?

A. $5,963 + 857 = \square$

B. $1,086 + 5,259 = \square$

12a. True or false? The following calculations are correct.

A. 1 thousand,
19 hundreds and 50 ones = $1,568 + 1,382$

B. 2 thousands,
18 hundreds and 67 ones = $2,576 + 1,591$

12b. True or false? The following calculations are correct.

A. 6 thousands,
12 hundreds and 84 ones = $4,968 + 2,316$

B. 7 thousands,
22 hundreds and 37 ones = $6,998 + 2,239$

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Developing

1a. 6,820; 100 is circled

2a.

Th	H	T	O
4	9	0	1
	1	1	

3a. 1 exchange (6,419)

4a. False – it's equal to 8,113.

Expected

5a. 9,121; 1,000 is circled

6a.

	4	9	2	7
+		3	7	4
	5	3	0	1
	1	1	1	

7a. 3 exchanges (8,051)

8a. A = True; B = False (9,196 < 9,206)

Greater Depth

9a. 4,329; 100 is circled

10a. A = 9,252; B = 4,024

11a. A = 3 exchanges (4,460)

B = 2 exchanges (8,091)

12a. A = True; B = False (3867 < 4,167)

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Developing

1b. 6,171; 10 is circled

2b.

Th	H	T	O
6	1	0	9
	1	1	

3b. 2 exchanges (5,162)

4b. False – it's equal to 8,911.

Expected

5b. 4,122; 10 is circled

6b.

	7	4	1	9
+	1	7	8	5
	9	2	0	4
	1	1	1	

7b. 2 exchanges (5,390)

8a. A = False (5,222 < 5,322); B = True

Greater Depth

9b. 8,063; 1,000 is circled

10b. A = 5,201; B = 9,043

11b. A = 3 exchanges (6,820)

B = 2 exchanges (6,345)

12b. A = True; B = True