

Varied Fluency

Step 1: Add More Than 4-Digits

National Curriculum Objectives:

Mathematics Year 5: (5C2) [Add and subtract whole numbers with more than 4 digits, including using formal written methods \(columnar addition and subtraction\)](#)

Differentiation:

Developing Questions to support adding 4 and 5-digit numbers. Includes some exchanging with no use of zero as a place holder. Visual representations such as, place value charts and bar models are used.

Expected Questions to support adding 4 and 5-digit numbers. Includes exchanging with some use of zero as a place holder. Uses mostly column format with some linear presentation.

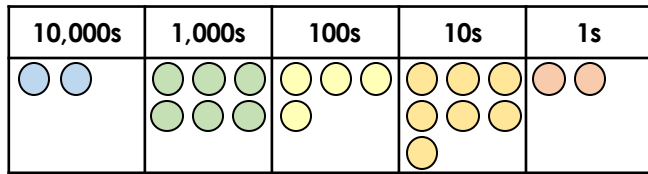
Greater Depth Questions to support adding up to three 4 and 5-digit numbers. Includes exchanging with the use of zero as a place holder. Uses mostly linear presentation with some column format. Also includes some examples of unconventional partitioning.

More [Year 5 Addition and Subtraction](#) resources.

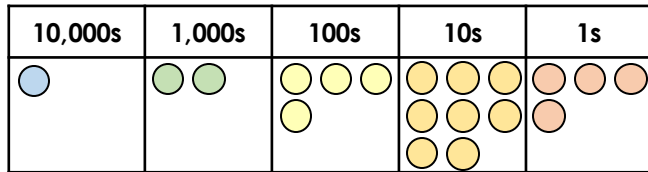
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Add More Than 4-Digits

1a. Use the place value counters to add the numbers below.



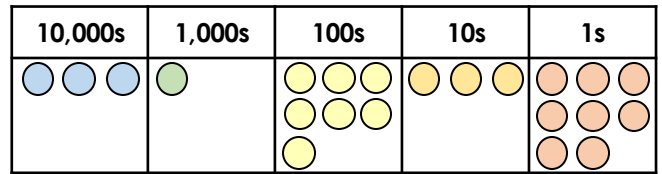
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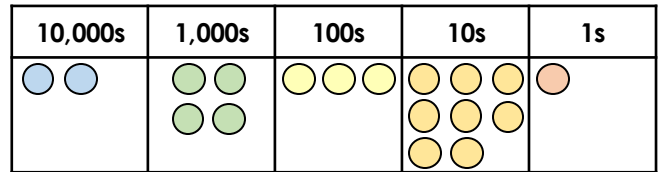
VF

Add More Than 4-Digits

1b. Use the place value counters to add the numbers below.

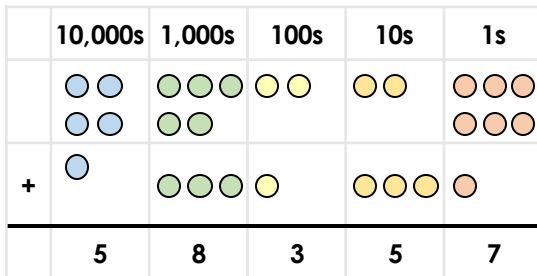


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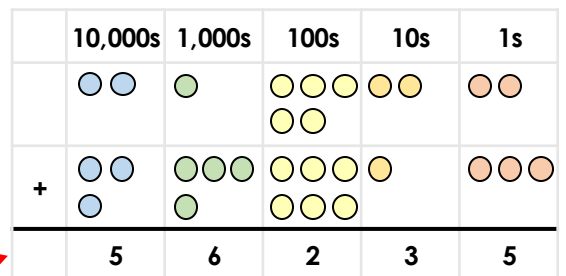
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2a. True or false?



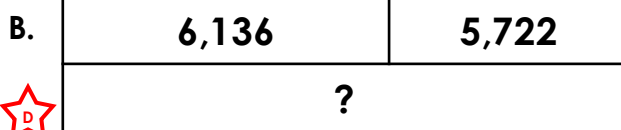
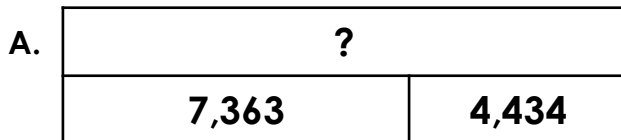
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2b. True or false?



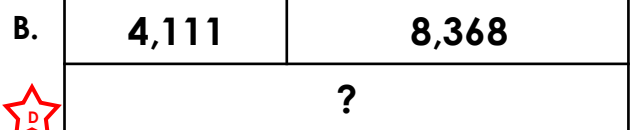
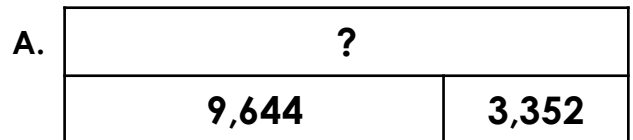
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3a. Complete the bar models below.



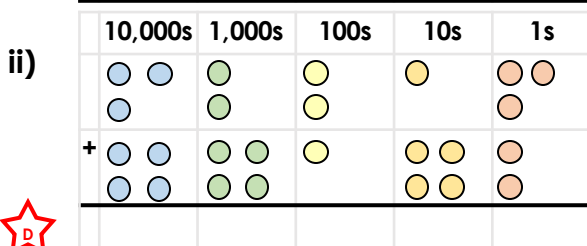
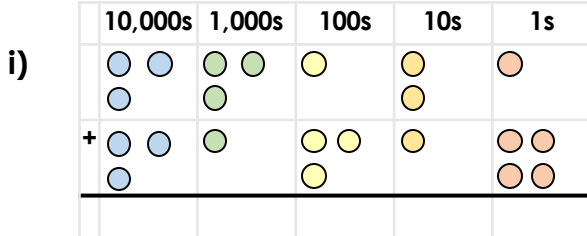
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3b. Complete the bar models below.



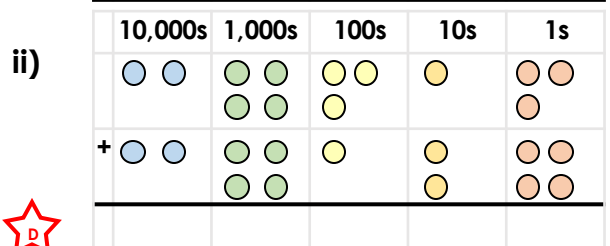
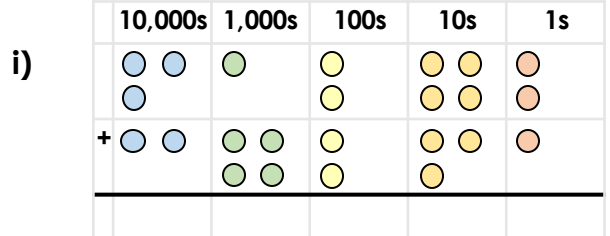
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4a. Solve the addition calculations below.



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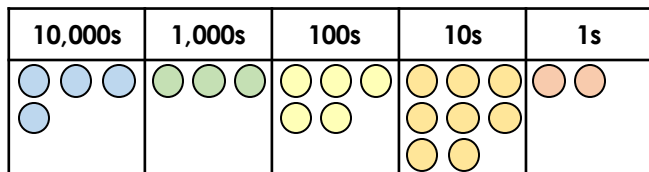
4b. Solve the addition calculations below.



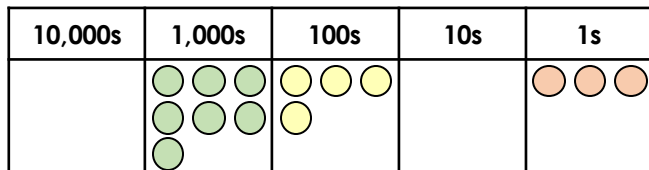
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Add More Than 4-Digits

5a. Use the place value counters to add the numbers below.



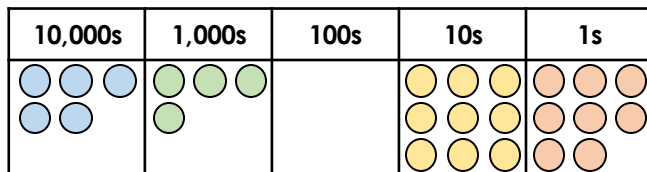
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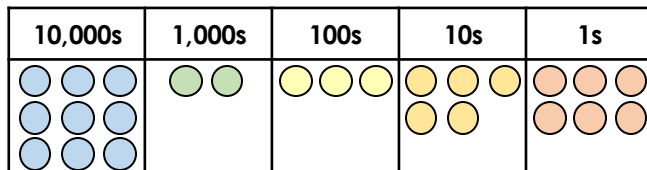
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Add More Than 4-Digits

5b. Use the place value counters to add the numbers below.



+



VF

6a. True or false?

	6	5	2	1	8
		2	7	0	3
+	3	0	1	9	2
	8	8	1	1	3
		1	1	1	



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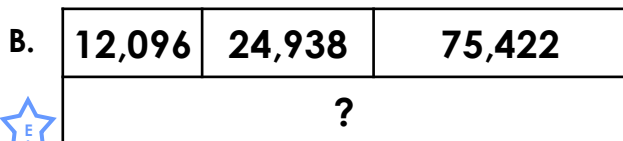
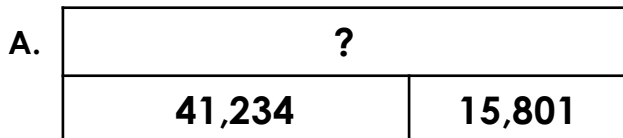
6b. True or false?

		3	7	4	9
	5	1	5	7	7
+	2	7	3	0	3
	8	2	6	2	9
	1	1	1	1	



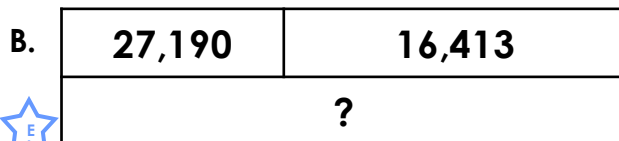
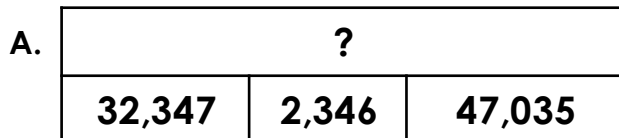
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7a. Complete the bar models below.



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7b. Complete the bar models below.



VF

8a. Solve the addition calculations below.

i) $44,058 + 13,239 =$ _____

ii)

	5	9	0	6	1
		4	5	5	3
+		3	9	8	7



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8b. Solve the addition calculations below.

i) $83,291 + 1,290 + 11,821 =$ _____

ii)

	2	9	1	6	8
+	1	3	7	0	4



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Add More Than 4-Digits

9a. Use the place value counters to add the numbers below.

10,000s	1,000s	100s	10s	1s

+

10,000s	1,000s	100s	10s	1s



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Add More Than 4-Digits

9b. Use the place value counters to add the numbers below.

10,000s	1,000s	100s	10s	1s

+

10,000s	1,000s	100s	10s	1s



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10a. True or false?

$$59,276 + 8,095 + 67,488 = 136,859$$



VF

10b. True or false?

$$7,738 + 90,843 + 54,137 = 152,918$$



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11a. Complete the bar models below.

A.

?		
83,373	3,294	16,345

B.

32,507	28,596	4,384
?		



VF

11b. Complete the bar models below.

A.

?		
9,588	40,827	73,239

B.

72,485	8,596	69,609
?		



VF

12a. Solve the addition calculations below.

i) $8,008 + 41,299 =$ _____

ii)

	6	9	0	8	4
+		7	9	8	7



VF

12b. Solve the addition calculations below.

i) $36,783 + 4,035 + 16,808 =$ _____

ii)

	7	9	9	7	9
+	5	0	8	7	8



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Developing

1a. $26,472 + 12,484 = 38,956$

2a. True

3a. $A = 11,797$ $B = 11,858$

4a. i) $64,435$ ii) $76,355$

Expected

5a. $43,582 + 7,403 = 50,985$

6a. False as $65,218 + 2,703 + 30,192 = 98,113$.

7a. $A = 57,035$ $B = 112,456$

8a. i) $57,297$ ii) $67,601$

Greater Depth

9a. $114,586 + 52,609 = 167,195$

10a. False as $59,276 + 8,095 + 67,488 = 134,859$.

11a. $A = 103,012$ $B = 65,487$

12a. i) $49,307$ ii) $77,071$

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Developing

1b. $31,738 + 24,381 = 56,119$

2b. False as $21,522 + 34,613 = 56,135$.

3b. $A = 12,996$ $B = 12,479$

4b. i) $55,473$ ii) $48,437$

Expected

5b. $54,098 + 92,356 = 146,454$

6b. True

7b. $A = 81,728$ $B = 43,603$

8b. i) $96,402$ ii) $42,872$

Greater Depth

9b. $87,280 + 54,226 = 141,506$

10b. False as $7,738 + 90,843 + 54,137 = 152,718$.

11b. $A = 123,654$ $B = 150,690$

12b. i) $57,626$ ii) $130,857$