

WA4MNAAS1

Calculating with number

Core + Challenge

Written Addition — No Regrouping

I can add two 4-digit numbers using the column method when no regrouping is needed.

Name: _____ Date: _____ Score: / 53

Key idea

Column addition (no regrouping): line up the numbers by place value, then add each column separately — ones, then tens, then hundreds, then thousands. When no column adds to 10 or more, nothing needs to be carried.

E.g. $1,234 + 2,143$: ones $4+3=7$, tens $3+4=7$, hundreds $2+1=3$, thousands $1+2=3 \rightarrow 3,377$.

A Fluency *practise the skill*

/16 marks

Add each pair of numbers using the column method. None of these need regrouping.

1. $1,234 + 2,143$ _____

2. $1,023 + 3,456$ _____

3. $2,110 + 1,234$ _____

4. $3,201 + 4,321$ _____

5. $1,111 + 2,222$ _____

6. $2,345 + 3,214$ _____

7. $4,012 + 3,456$ _____

8. $1,203 + 2,145$ _____

9. $3,312 + 1,234$ _____

10. $2,021 + 3,412$ _____

11. $1,540 + 2,123$ _____

12. $4,103 + 2,214$ _____

13. $2,231 + 1,345$ _____

14. $3,014 + 2,653$ _____

15. $1,322 + 4,231$ _____

16. $2,405 + 3,281$ _____

B Core *apply the skill to problems*

/21 marks

1

A school raised \$1,245 in Term 1 and \$2,132 in Term 2. How much did the school raise in total across both terms?

[3 marks]

Answer: _____

2

A concert had 2,312 tickets sold on Friday and 3,214 tickets sold on Saturday. (a) How many tickets were sold in total? (b) If 6,000 tickets were available in total, how many tickets are still unsold?

[4 marks]

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Answer: _____

3

Two stadiums had crowds of 3,142 and 2,415 for the same event. How many people attended across both stadiums in total?

[3 marks]

Answer: _____

4

A courier delivered 1,324 parcels in January and 2,432 parcels in February. (a) How many parcels were delivered across the two months? (b) The courier's yearly target is 10,000 parcels. How many more parcels are needed to reach the target after these two months?

[4 marks]

Answer: _____

5

A company's two offices have 2,103 and 1,541 light bulbs installed. How many light bulbs are installed across both offices in total?

[3 marks]

Answer: _____

6

A library has 3,215 fiction books and 2,543 non-fiction books. (a) How many books does the library have in total? (b) The library wants to reach 7,000 books overall. How many more books do they need to buy?

[4 marks]

Answer: _____

C**Reasoning** *explain, justify and check***/9 marks**

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1

Explain what it means for an addition to have 'no regrouping' (no carrying).

[2 marks]

2

A student adds $2,341 + 3,214$ by adding each column separately with no carrying, and gets 5,555. Explain why this method works for this particular addition.

[2 marks]

3

Explain why you always start adding from the ones column, even when no regrouping is needed.

[2 marks]

4

A student says that adding two 4-digit numbers with no regrouping will always give a 4-digit answer. Is this true? Explain, using an example or a counter-example.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

Find two 4-digit numbers, each using only digits from 1 to 4, that add together with no regrouping to make exactly 5,555.

[2 marks]

Answer: _____

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2

A 4-digit number added to 1,234 (with no regrouping) gives 3,468. What is the 4-digit number?

[2 marks]

Answer: _____

3

Using only the digits 1, 2, 3 and 4 (each digit can be reused), create two 4-digit numbers that add together with no regrouping to make the largest possible total. What is that total?

[3 marks]

Answer: _____

How did I go?

Fluency ___/16 Core ___/21 Reasoning ___/9 Challenge ___/7 **Total ___/53**

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