

WA4MNAAS1

Calculating with number

Core + Challenge

Written Subtraction — With Regrouping

I can subtract 3- and 4-digit numbers using the formal written (column) method, including regrouping (borrowing).

Name: _____ Date: _____ Score: / 53

Key idea

Column subtraction with regrouping: line up the numbers by place value and subtract from the units column. If the top digit is smaller than the digit below it, trade (regroup) one unit from the next column to the left — it's worth ten in the current column.

E.g. $700 - 283$: units and tens are both 0, so borrow from the hundreds first, making 6 hundreds, 9 tens, 10 units, then subtract → **417**.

A Fluency *practise the skill*

/16 marks

Use the column (vertical) subtraction method in your working space for each problem. Every problem needs regrouping (borrowing) in at least one column.

1. $452 - 187 = ?$ _____

2. $624 - 358 = ?$ _____

3. $813 - 456 = ?$ _____

4. $700 - 283 = ?$ _____

5. $3,452 - 1,687 = ?$ _____

6. $5,241 - 2,876 = ?$ _____

7. $6,003 - 2,748 = ?$ _____

8. $4,500 - 1,762 = ?$ _____

9. $8,254 - 3,689 = ?$ _____

10. $7,000 - 3,456 = ?$ _____

11. $9,362 - 4,785 = ?$ _____

12. $5,006 - 2,319 = ?$ _____

13. $6,420 - 3,758 = ?$ _____

14. $8,100 - 4,563 = ?$ _____

15. $10,000 - 4,628 = ?$ _____

16. $4,321 - 1,854 = ?$ _____

B Core *apply the skill to problems*

/21 marks

1

A fun run had 3,452 registered entrants. 1,687 of them didn't finish the race.
How many entrants finished?

[3 marks]

Answer: _____

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2

A shop had 6,003 items in stock. During a sale, 2,748 items were sold. How many items are left in stock? Show your column subtraction working.

[4 marks]

Answer: _____

3

A charity's fundraising target was \$8,254. So far they have raised \$3,689. How much more do they need to raise to reach their target?

[3 marks]

Answer: _____

4

A stadium has a capacity of 10,000 seats. For a match, 4,628 seats remained empty. How many seats were filled? Show your working, including any regrouping across the zeros.

[4 marks]

Answer: _____

5

A baker started the day with 6,420 buns. By closing time, 3,758 buns had been sold. How many buns are left?

[3 marks]

Answer: _____

6

A company's total expenses for the year were \$9,362. Of this, \$4,785 was spent on wages, and the rest was spent on other costs. How much was spent on other costs?

[4 marks]

Answer: _____

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C**Reasoning** *explain, justify and check***/9 marks****1**

Explain why, in column subtraction, we sometimes need to 'regroup' or 'borrow' from the next column to the left.

[2 marks]**2**

Leo subtracts $503 - 268$ and gets 345. Use estimation to show his answer is wrong, then explain his likely mistake.

[2 marks]**3**

Explain what happens when you subtract across a zero, using the example $700 - 283$.

[2 marks]**4**

A student says that subtracting two 4-digit numbers always gives a 4-digit answer. Is this true? Explain and give an example that supports your answer.

[3 marks]**D****Challenge** *multi-step and problem-solving***/7 marks****1**

Find two 4-digit numbers, both greater than 5,000, whose subtraction requires regrouping in every column. Show the subtraction and its answer.

[2 marks]

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Answer: _____

2

The difference between two numbers is 4,577. One of the numbers is 9,362. What is the other number? (There are two possible answers — find both.)

[2 marks]

Answer: _____

3

A theme park sold 9,124 tickets on Saturday and 6,758 tickets on Sunday. The manager claims more than 2,000 more tickets were sold on Saturday than Sunday. Is the manager correct? Show your working and explain.

[3 marks]

Answer: _____

How did I go?

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

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