

Answer Key — Written Subtraction — With Regrouping

Year 4 Mathematics · Number and algebra · WA4MNAAS1

Section A — Fluency (16 marks, 1 mark each)

1. 265
2. 266
3. 357
4. 417
5. 1,765
6. 2,365
7. 3,255
8. 2,738
9. 4,565
10. 3,544
11. 4,577
12. 2,687
13. 2,662
14. 3,537
15. 5,372
16. 2,467

Section B — Core (21 marks)

1. $3,452 - 1,687 = 1,765$ entrants finished. [2 marks working, 1 mark correct answer]
2. $6,003 - 2,748 = 3,255$ items left. [2 marks working, 2 marks correct answer]
3. $8,254 - 3,689 = \$4,565$ still needed. [2 marks working, 1 mark correct answer]
4. $10,000 - 4,628 = 5,372$ seats filled. [2 marks working showing regrouping across the zeros, 2 marks correct answer]
5. $6,420 - 3,758 = 2,662$ buns left. [2 marks working, 1 mark correct answer]
6. $9,362 - 4,785 = \$4,577$ spent on other costs. [2 marks working, 2 marks correct answer]

Section C — Reasoning (9 marks) — sample responses, award marks for valid reasoning

1. Sometimes the digit in the top number is smaller than the digit below it in the same column, so we can't subtract directly. We trade (borrow/regroup) one unit from the next column to the left, worth ten in the current column, to make the subtraction possible. [2 marks]
2. Estimate: $500 - 270 \approx 230$, so 345 is too high. The correct answer is 235; Leo most likely made an error regrouping across the zero in the tens place. [2 marks]
3. In $700 - 283$, the units column is $0 - 3$, which can't be done directly, and the tens column is also 0, so we must first borrow from the hundreds: 700 becomes 6 hundreds, 9 tens, 10 units, and only then can we borrow 1 ten into the units column to subtract. The final answer is 417. [2 marks]

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4. False. The answer can have fewer digits, e.g. $5,002 - 4,998 = 4$, which is a 1-digit answer, not 4 digits. [2 marks valid example, 1 mark for correctly saying false]

Section D — Challenge (7 marks)

1. Any valid example works, e.g. $8,123 - 5,467 = 2,656$, which needs regrouping in the units, tens and hundreds columns. [2 marks]

2. Either 4,785 (if 9,362 is the larger number) or 13,939 (if 9,362 is the smaller number). [1 mark each]

3. $9,124 - 6,758 = 2,366$. Yes, the manager is correct — 2,366 is more than 2,000. [2 marks correct difference, 1 mark correct conclusion]