

Answer Key — 2-Digit $\times$ 1-Digit Multiplication — With Regrouping

Year 4 Mathematics · Number and algebra · WA4MNAMU2

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

1. 282
2. 266
3. 224
4. 232
5. 320
6. 438
7. 255
8. 414
9. 406
10. 268
11. 312
12. 552
13. 420
14. 513
15. 476
16. 294

Section B — Core (21 marks)

1. $36 \times 7 = 252$ oranges. [2 marks working, 1 mark correct answer]
2. $24 \times 8 = 192$ pencils bought; $192 - 19 = 173$ pencils left. [2 marks first step, 2 marks second step]
3. $45 \times 6 = 270$ seats. [2 marks working, 1 mark correct answer]
4. $18 \times 9 = 162$ muffins made; $162 - 150 = 12$ muffins left. [2 marks first step, 2 marks second step]
5. $57 \times 8 = 456$ toys. [2 marks working, 1 mark correct answer]
6. $48 \times 7 = 336$ cans in the boxes; $336 + 25 = 361$ cans in total. [2 marks first step, 2 marks second step]

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

1. When we multiply the ones digit, the result can be 10 or more, so we write down the ones digit and carry the tens into the next column so the total is counted correctly. [2 marks]
2. Split 47 into $40 + 7$, multiply each part by 6 ($40 \times 6 = 240$ and $7 \times 6 = 42$), then add the results: $240 + 42 = 282$. [2 marks]
3. Estimate: $38 \approx 40$, and $40 \times 7 = 280$, so 216 is far too small. The correct answer is 266; Priya most likely made an error carrying the tens from $8 \times 7 = 56$ into the tens column. [2 marks]
4. False. A 2-digit number multiplied by a 1-digit number can give a 2-digit answer, e.g. $12 \times 4 = 48$, which has only 2 digits. [2 marks valid example, 1 mark for correctly saying false]

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Section D — Challenge (7 marks)

1. Any valid number works, e.g. $51 \times 6 = 306$, which is between 300 and 310. [2 marks]
2. $441 \div 7 = 63$, so the 2-digit number is 63 (check: $63 \times 7 = 441$). [2 marks]
3. Block A: $68 \times 7 = 476$ seats. Block B: 6 rows of 77 seats = $6 \times 77 = 462$ seats. Block A has more seats, by $476 - 462 = 14$ seats. [2 marks correct totals, 1 mark correct comparison]