

Answer Key — Lesson 3: Adding Up to Four Digits

Teacher answer key for all three versions of the Lesson 3 worksheet (adding whole numbers to four digits). ULO2.

Main — "Combining the Gumnut Piles: Addition"

1. a) 590 b) 1 850
2. $2\,350 + 1\,425 = 3\,775$
3. a) 2 923 b) 6 030. **Look for:** both need carrying.
4. $1\,850 + 2\,340 = 4\,190$
5. Any valid pair summing to 5 000, e.g. $2\,500 + 2\,500$, $3\,200 + 1\,800$, $4\,050 + 950$. **Look for:** students show the two numbers add to exactly 5 000.

Support — "Adding, step by step"

1. a) tens 70, ones 8, total 78 b) tens 70, ones 7, total 77
2. a) 700 b) 550
3. $120 + 60 = 180$
4. $1\,200 + 300 = 1\,500$

Extension — "Bigger sums and addition puzzles"

1. a) 6 543 b) 10 217
2. $2\,480 + 1\,975 + 3\,060 = 7\,515$
3. $2\,350 + \square = 6\,000$, so $\square = 3\,650$
4. Largest total from 1–6 in two 3-digit numbers: put the biggest digits in the hundreds. $631 + 542 = 1\,173$ (any arrangement with {6,5} in hundreds, {4,3} in tens, {2,1} in ones gives 1 173). **Look for:** 1 173 is the maximum; accept any digit split that reaches it.
5. True — two odd numbers always sum to an even number. Three correct examples (e.g. $3+5=8$, $7+9=16$, $11+13=24$) and agreement.

Common errors: not carrying when a column exceeds 9; misaligning place value for numbers of different lengths. Encourage an estimate first as a reasonableness check.