

Answer Key — Lesson 2: Partitioning, Ordering & Odd/Even

Teacher answer key for the Lesson 2 worksheet (partitioning, ordering, odd/even). This lesson has a single worksheet. ULO1.

"Partitioning, ordering and odd/even numbers"

1. a) $4\,627 = 4\,000 + 600 + 20 + 7$ b) $8\,305 = 8\,000 + 300 + 0 + 5$ (accept $8\,000 + 300 + 5$).
2. Any valid non-standard partition of 3 240, e.g. $3\,000 + 200 + 40$, written differently as $3\,000 + 100 + 140$, or $2\,000 + 1\,200 + 40$. **Look for:** the parts must still total 3 240.
3. 405, 4 005, 4 050, 4 500
4. Even: 318, 2 000, 6 074. (547 and 1 235 are odd.)
5. 14 is even; the gumnuts all pair up with none left over (7 pairs).
6. Largest even: 8 152 (must end in an even digit — 2). Smallest odd: 1 285 (must end in an odd digit — 5; smallest available leading digit is 1). **Look for:** students often forget the parity constraint fixes the last digit first.

Common errors: judging odd/even from the first digit instead of the last; in Q6, building the largest/smallest number without first reserving an even (or odd) digit for the ones place.