Penguin Path Sum Puzzle

Answers and adult support.

Unique route

Start at the top-left 2, then move right, right, down, down, right and down. The visited numbers are 2, 7, 4, 8, 2, 7 and 3.

Arithmetic check

2 + 7 + 4 + 8 + 2 + 7 + 3 = 33.

Independent verification

All 20 possible routes that move only right or down were generated and checked. Exactly one has a total of 33: RRDDRD.