Robot Delivery: Follow and Repair the Code

Answers and adult support.

1. The correct route reaches P

Starting at A1, the route is B1, C1, C2, C3, D3, D4. The final square is D4, where the parcel P is. Arrows are fixed page directions, not relative turns.

2. Diagnose and repair

The broken route finishes at D2, not D4. Command 4 is down; replace it with up. The corrected list is right, right, up, up, right, up. The wrong downward step is still inside the grid, so it is not a boundary error.

3. Six steps; more than one valid answer

A1 to D4 needs three steps right and three steps up. Any ordering of those six commands reaches P while staying in the grid. There are twenty shortest orders. One example is up, up, up, right, right, right. No left or down command can occur in a six-step shortest solution.

Explain and check

Ask the learner to trace every command and count steps. R marks the start, P the parcel, S a spare charging station. S is not a compulsory stop. An adult can scribe the learner’s six arrows.