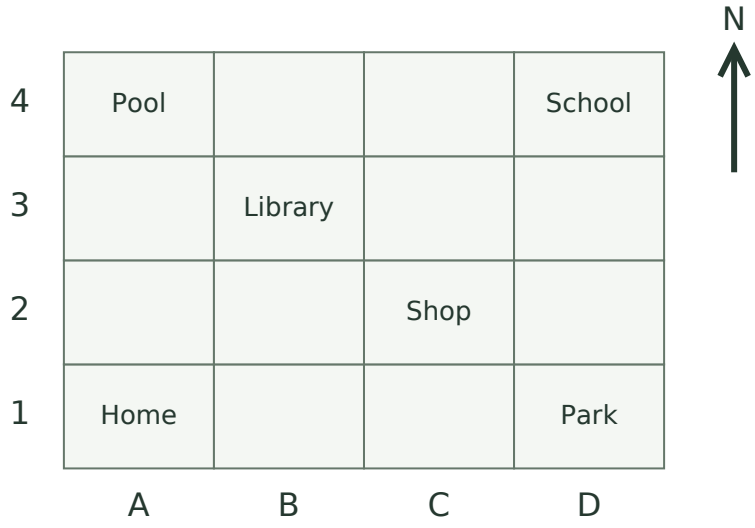
Describing map pathways

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

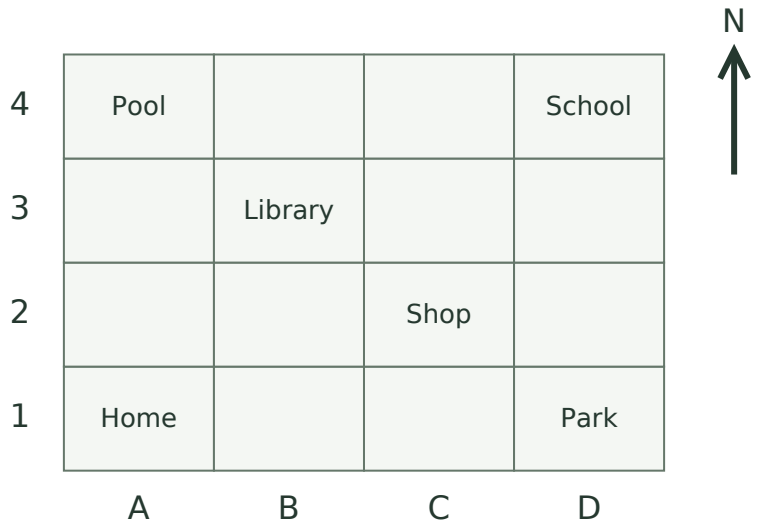
1. Start at A1. Move three cells east. Give the destination. [1 mark]



$\mathrm{A1} \rightarrow \mathrm{B1} \rightarrow \mathrm{C1} \rightarrow \mathrm{D1}$.

Answer: D1, Park.

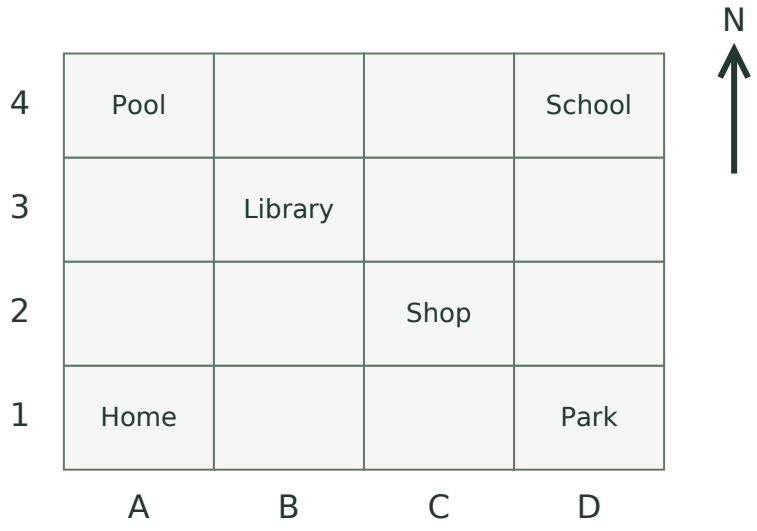
2. Start at D4. Move three cells south. Give the destination. [1 mark]



$D4 \rightarrow D3 \rightarrow D2 \rightarrow D1$.

Answer: D1, Park.

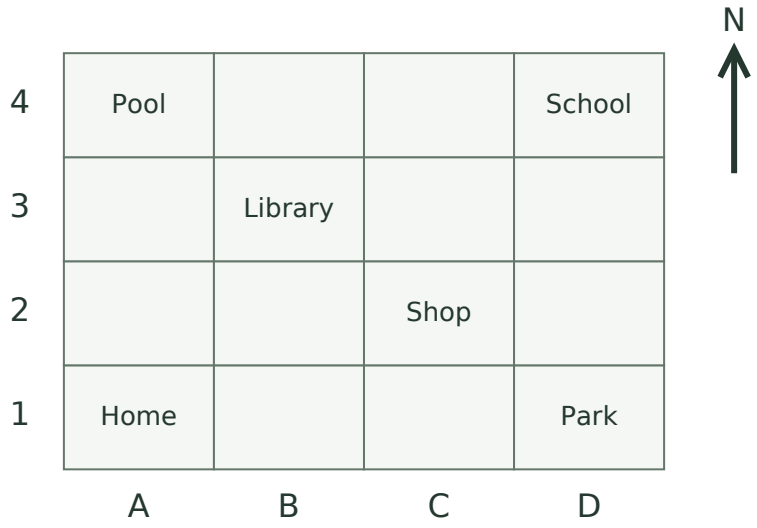
3. Start at A1. Move one east and two north. Give the destination. [1 mark]



$A1 \rightarrow B1 \rightarrow B2 \rightarrow B3$.

Answer: B3, Library.

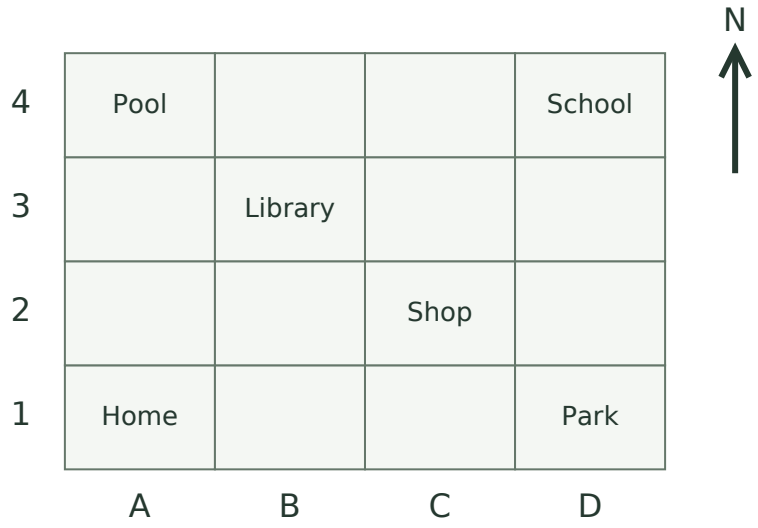
4. Write a route from Shop C2 to School D4 using only east and north moves.
[2 marks]



$C2 \rightarrow D2 \rightarrow D3 \rightarrow D4$. North-then-east is also valid.

Answer: One cell east, then two cells north.

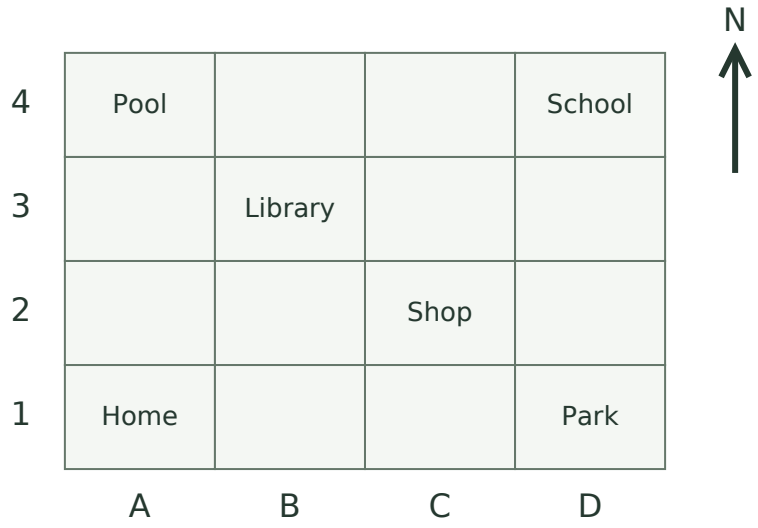
5. Find the fewest north/south/east/west cell steps from Library B3 to Park D1, with no obstacles. [2 marks]



Two east and two south are needed.

Answer: Four steps.

6. Can this map alone tell the walking distance from Home to School in metres? Explain. [2 marks]



A real-distance scale would be needed.

Answer: No; it gives cells but no distance scale or paths in metres.