

Map Route Detectives

Grades 2-4 | 36 tasks

Build careful map reading with fictional grids and a repeated legend. Learners name directions and cells, follow a route, repair a route or compare routes.

36 tasks across 6 fictional maps

Compact cards + enlarged one-task pages

Directions, grid cells, routes and answer keys

Model the legend and one cell reference. Choose compact pages for a small station or LARGE_PRINT for one enlarged task per page. Ask learners to trace moves before writing their answer.

The following pages are actual excerpts from the resource.
A4 + US Letter | Version 1.3
Printable PDF with teacher support



P07-01

Starter

M01 • Harvest Corner

N ↑ Row letter + column number

	1	2	3	4	5	6
A						
B	P					X
C						
D	S				X	
E	X				X	
F				G		L

G Gate • L Leaf Hut
P Paper Pond • S Seed Shed
X blocked • one step per command

In which cardinal direction is Leaf Hut from Gate?

Answer:

P07-02

Starter

M01 • Harvest Corner

N ↑ Row letter + column number

	1	2	3	4	5	6
A						
B	P					X
C						
D	S				X	
E	X				X	
F				G		L

G Gate • L Leaf Hut
P Paper Pond • S Seed Shed
X blocked • one step per command

In which cardinal direction is Seed Shed from Paper Pond?

Answer:



P07-05

Starter

M01 • Harvest Corner

N ↑ Row letter + column number

	1	2	3	4	5	6
A						
B	P					X
C						O
D	S				X	
E	X				X	
F				G		L

G Gate • L Leaf Hut
P Paper Pond • S Seed Shed
X blocked • one step per command

Start in C6 and finish in F4. Replace exactly one command with N, E, S or W.

Route: 1:S 2:W 3:S 4:W 5:W

Answer:

P07-06

Starter

M01 • Harvest Corner

N ↑ Row letter + column number

	1	2	3	4	5	6
A						
B	P					X
C						O
D	S				X	
E	X				X	
F				G		L

G Gate • L Leaf Hut
P Paper Pond • S Seed Shed
X blocked • one step per command

Both routes go from C6 to F4. Which is shorter, and by how many moves?

A: S • N • S • S • S • W • W

B: S • S • S • W • W

Answer:



P07-11

Starter

M02 • Lantern Yard

N ↑ Row letter + column number

	1	2	3	4	5	6
A	G				L	
B				P		
C			X		O	
D	X	X			X	
E				S		
F	X				X	

G Gate · L Leaf Hut
P Paper Pond · S Seed Shed
X blocked · one step per command

Start in C5 and finish in E2. Replace exactly one command with N, E, S or W.

Route: 1:W 2:S 3:S 4:W 5:N

Answer:

P07-12

Starter

M02 • Lantern Yard

N ↑ Row letter + column number

	1	2	3	4	5	6
A	G				L	
B				P		
C			X		O	
D	X	X			X	
E				S		
F	X				X	

G Gate · L Leaf Hut
P Paper Pond · S Seed Shed
X blocked · one step per command

Both routes go from C5 to E2. Which is shorter, and by how many moves?

A: W · S · S · W · W
B: N · S · N · S · W · S · S · W · W

Answer:



P07-17

Stretch

M03 • Autumn Workshop

N ↑ Row letter + column number

	1	2	3	4	5	6	7	8
A				X			X	
B								
C			X					
D				X				
E				P				
F				S			X	
G								
H	O		G		L			

G Gate · L Leaf Hut
P Paper Pond · S Seed Shed
X blocked · one step per command

Start in H1 and finish in B2. Replace exactly one command with N, E, S or W.

Route: 1:N 2:N 3:N 4:N 5:N 6:S 7:N 8:E 9:E 10:S 11:W

Answer:

P07-18

Stretch

M03 • Autumn Workshop

N ↑ Row letter + column number

	1	2	3	4	5	6	7	8
A				X			X	
B								
C			X					
D				X				
E				P				
F				S			X	
G								
H	O		G		L			

G Gate · L Leaf Hut
P Paper Pond · S Seed Shed
X blocked · one step per command

Both routes go from H1 to B2. Equal length, or which is shorter and by how many moves?

A: N · N · N · N · N · N · E
B: E · N · N · N · N · N · N

Answer:

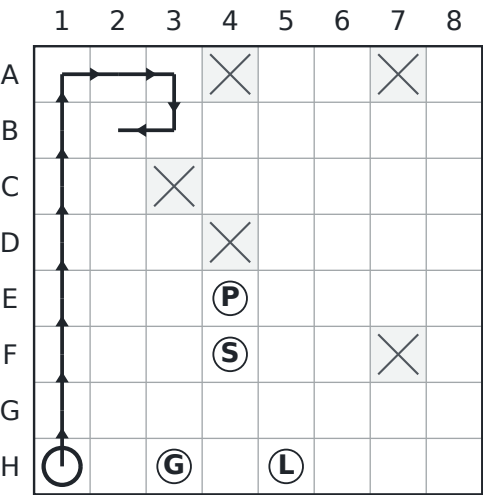


P07-17

Stretch

M03 • Autumn Workshop

N ↑ Row letter + column number



G Gate · L Leaf Hut
P Paper Pond · S Seed Shed
X blocked · one step per command

Start in H1 and finish in B2. Replace exactly one command with N, E, S or W.

Route: 1:N 2:N 3:N 4:N 5:N 6:N 7:N 8:E 9:E 10:S 11:W

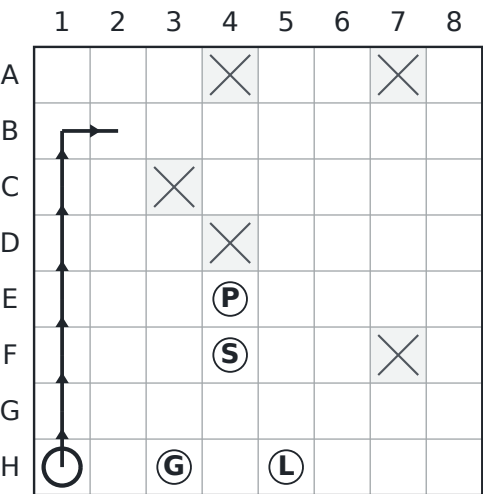
Answer: Command 6 → N

P07-18

Stretch

M03 • Autumn Workshop

N ↑ Row letter + column number



G Gate · L Leaf Hut
P Paper Pond · S Seed Shed
X blocked · one step per command

Both routes go from H1 to B2. Equal length, or which is shorter and by how many moves?

A: N · N · N · N · N · N · E
B: E · N · N · N · N · N · N

Answer: Equal length; 0 moves difference

Count A: 7; B: 7.

Map Route Detectives

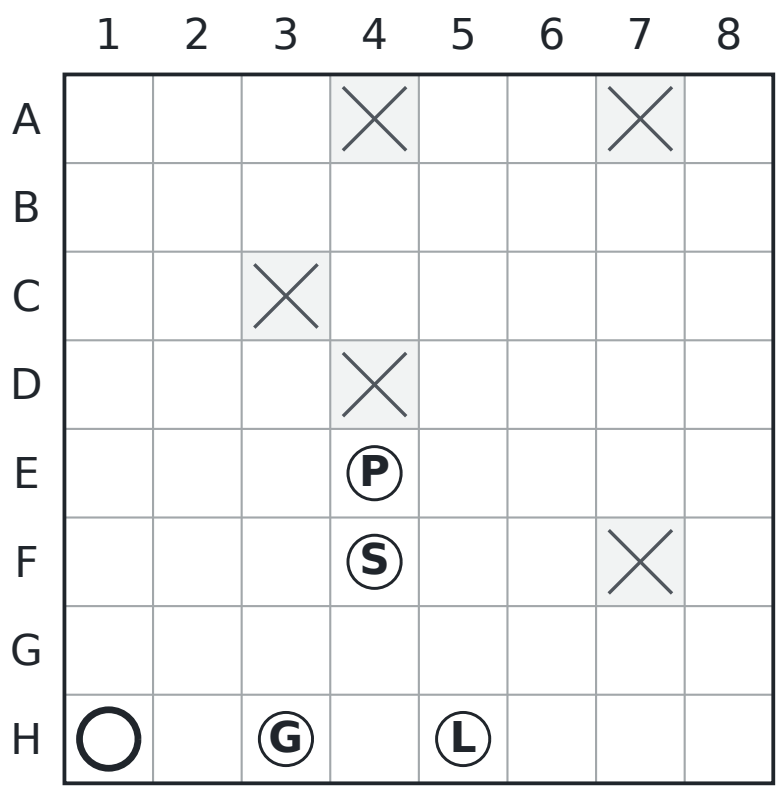
Enlarged task | P07-18

P07-18 | Stretch

Both routes go from H1 to B2. Are they equal in length? If not, which is shorter and by how many moves?

A: N · N · N · N · N · N · E

B: E · N · N · N · N · N · N



N is up. G = Gate; L = Leaf Hut.
P = Paper Pond; S = Seed Shed.
X = blocked cell. One command moves one cell.

Answer / explanation: