Routes

Find the different shortest routes from point A to each other letter. Routes must be on the lines in a horizontal or vertical direction.

I	Ή	G	
С	D	F	
А	В	Е	

Record your results in the table below.

Journey	Number of routes	Different routes
АВ	1	AB
AC		
AD		
AE		
AF	3	ACDF, ABDF, ABEF
AI		
АН		
AG		

Can you spot any patterns?				

Challenge

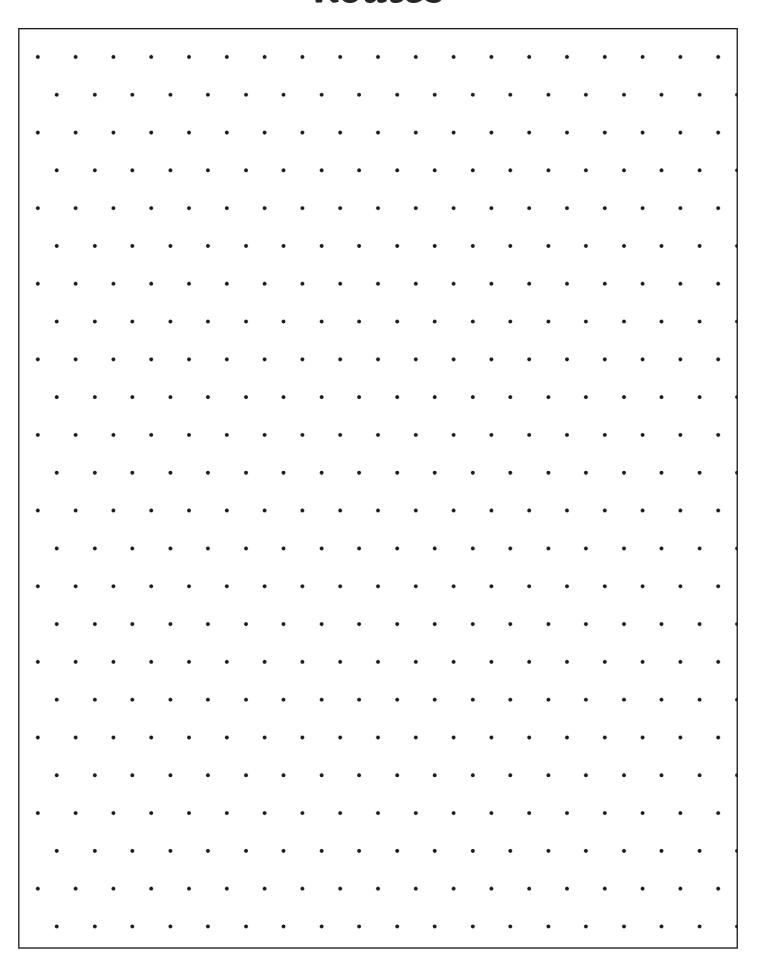
Add another set of letters in the row above the columns and to the right and investigate the number of routes.

Try routes on isometric paper.





Routes







Answers

Journey	Number of routes	Different routes
АВ	1	AB
AC	1	AC
AD	2	ABD, ACD
AE	1	ABE
AF	3	ACDF, ABDF, ABEF
AI	1	ACI
АН	3	ABDH, ACDH, ACIH
AG	6	ABEFG, ABDFG, ABDHG, ACIHG, ACDHG, ACDFG



