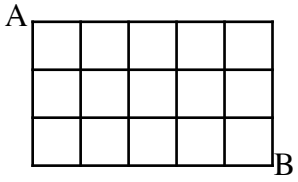
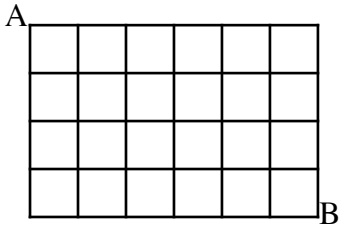
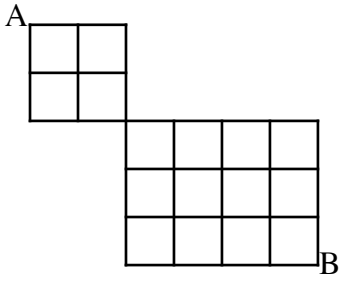
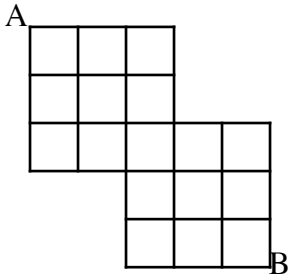
PC 12 LG 16 Worksheet (Pathways)

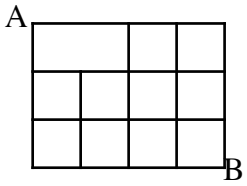
1. How :many paths going down and to the right are there from pt. A to pt. B?

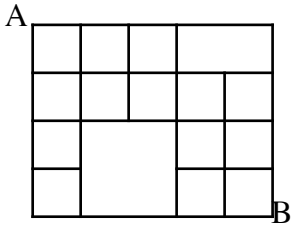
a. 

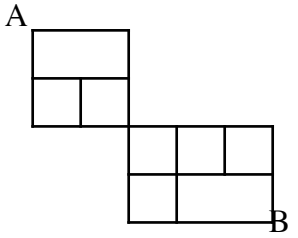
b. 

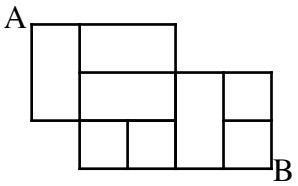
c. 

d. 

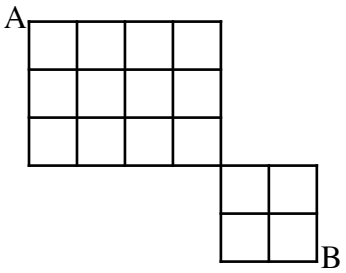
e. 

f. 

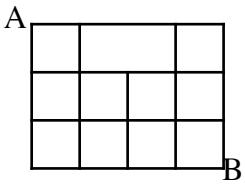
g. 

h. 

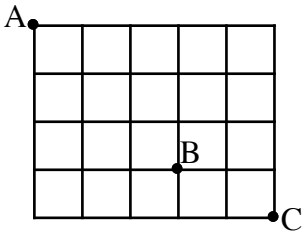
2. Moving only to the right or down, how many different routes exist to get from pt. A to pt. B?



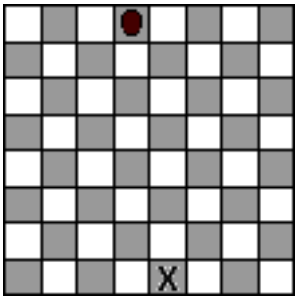
3. Moving only to the right or down, how many different routes exist to get from pt. A to pt. B?



4. Moving only to the right or down, how many different paths exist to get from A to C thru B?



5. How many paths are there for the checker to reach the marked spot. A checker must stay on the shaded squares and cannot move backwards.



PC 12 LG 16 Worksheet (Pathways)

Answer Key

1.a.

A	1	1	1	1	1	1
1	2	3	4	5	6	
1	3	6	10	15	21	
1	4	10	20	35	**56**	B

b.

A	1	1	1	1	1	1	1
1	2	3	4	5	6	7	
1	3	6	10	15	21	28	
1	4	10	20	35	56	84	
1	5	15	35	70	126	**210**	B

c.

A	1	1	1				
1	2	3					
1	3	6	6	6	6	6	
	6	12	18	24	30		
	6	18	36	60	90		
	6	24	60	120	**210**	B	

d.

A	1	1	1	1		
1	2	3	4			
1	3	6	10	10	10	
1	4	10	20	30	40	
	10	30	60	100		
	10	40	100	**200**	B	

e.

A	1		1	1	1
1	1	2	3	4	
1	2	4	7	11	
1	3	7	14	**25**	B

f.

A	1	1	1	1	1
1	2	3	4	4	5
1	3	6	10	14	19
1	4		10	24	43
1	5		15	39	**82**	B

g.

A	1		1			
1	1	2				
1	2	4	4	4	4	
	4	8	12	16		
	4	12		**28**	B	

h.

A	1	1		1		
1	1		2	2	2	
1	2		4	2	4	
	2	4	8	10	**14**	B

2.

A	1	1	1	1	1		
1	2	3	4	5			
1	3	6	10	15			
1	4	10	20	35	35	35	
				35	70	105	
				35	105	**210**	B

3.

A	1	1		1	1
1	2	2	3	4	
1	3	5	8	12	
1	4	9	17	**29**	B

4.

A	1	1	1	1		
1	2	3	4			
1	3	6	10			
1	4	10	20	B	20	20
			20	40	**60**	C

5.