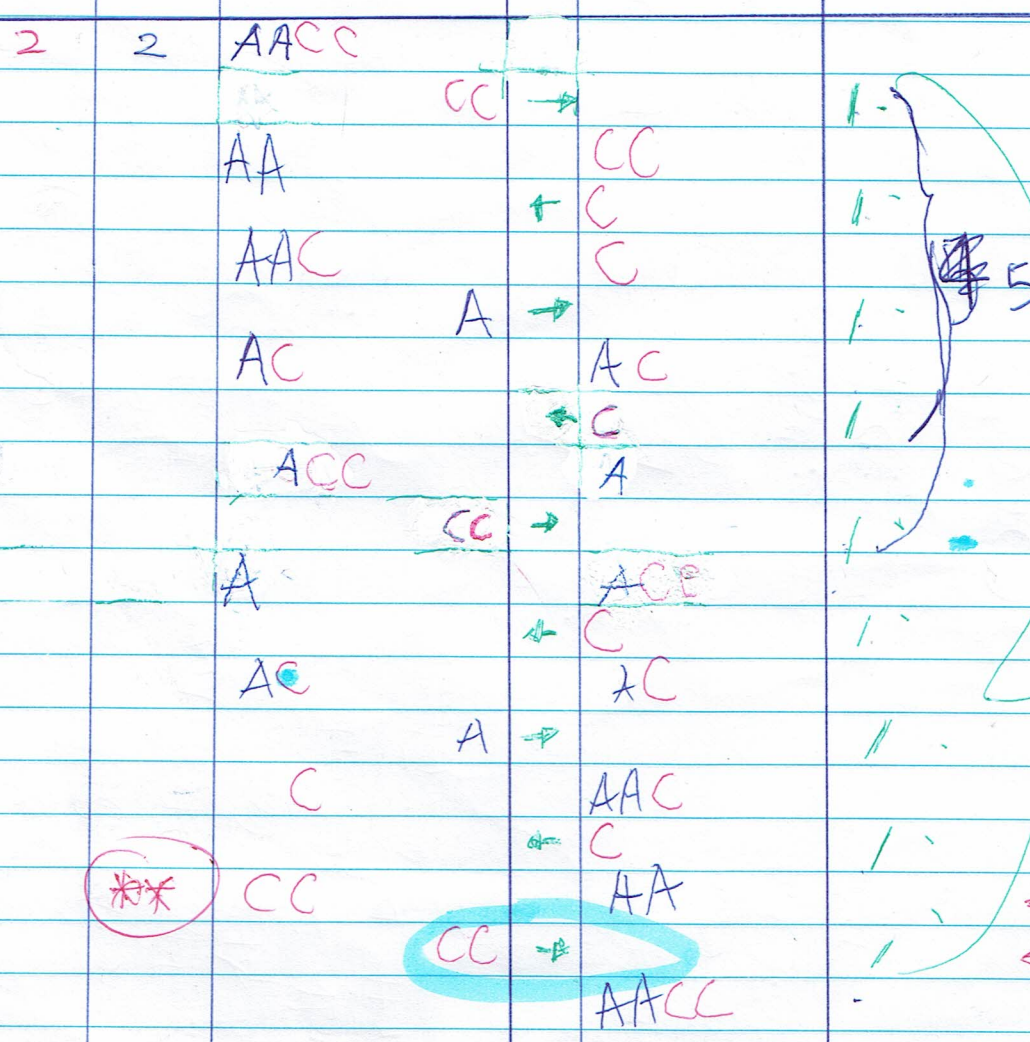
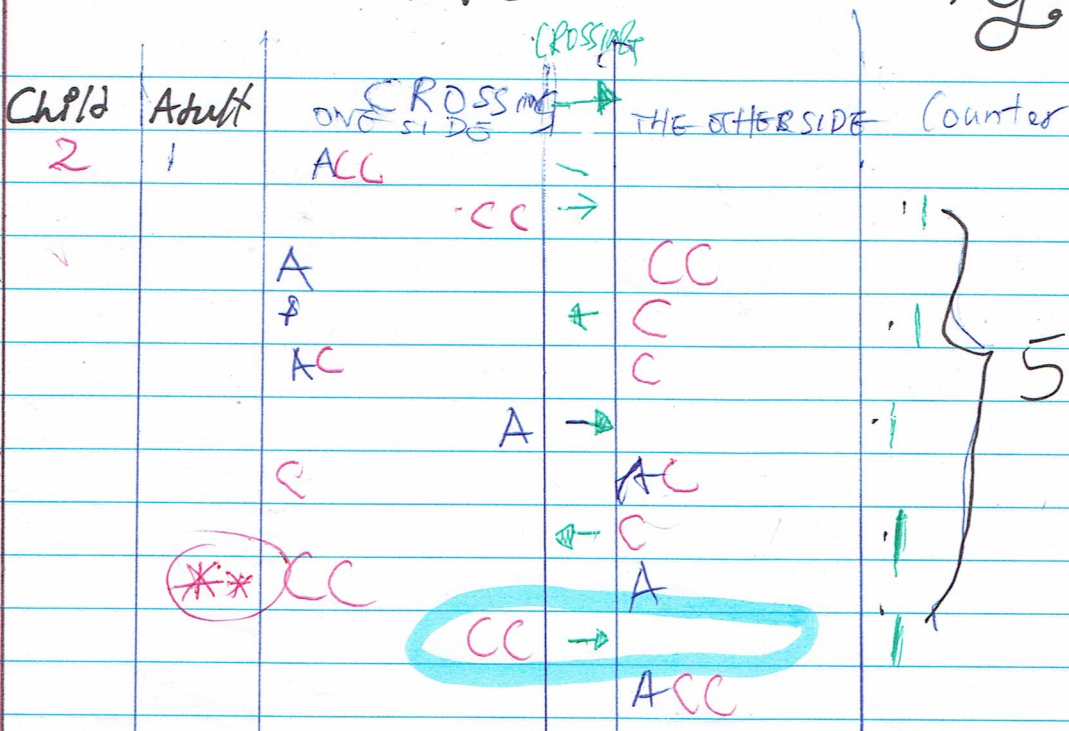


# River Crossing

KELVIN GROVE STATE COLLEGE  
 AUSTRALIA, BRISBANE  
 CLASS: 5G  
 ONG CI HUI MINH NGOC

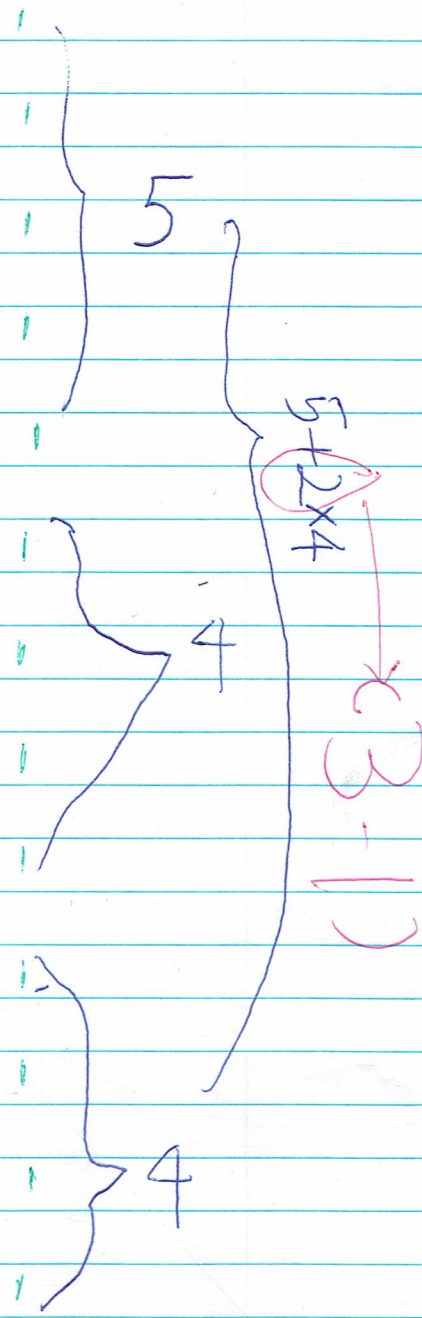


5+4  
~~5+4~~

Child    Adult    ONE SIDE    CROSSING    THE OTHER SIDE    CROSSING    COUNTER

CC	AAA	AAA CC			
	↑		CC →		
		AAA		← C	CC
				← C	C
		AAAC	A →		C
				← C	AC
		AAC			C
			CC →		A
		AA		← C	ACC
				← C	C
		AAC	A →		AC
				← C	AAC
		AC			C
			CC →		AA
		A CC		← C	AA CC
				← C	C
		A	A →		AAC
				← C	AAAC
		A c			<del>AA</del> C
			A →		AAA
		c		← C	AAACC
			CC →		
		<del>**</del>			

3



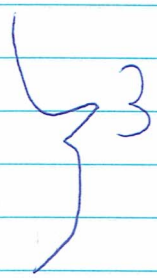
Comments:

- ① I predict n adults 2 children will make need  $5 + (n-1) \times 4$
- ② For this to be possible, there is a minimum of 2 children.
- ③ What happen, if there are more than 2 children? Refer to next page to find out!

# Explore further: More children after adults cross the river

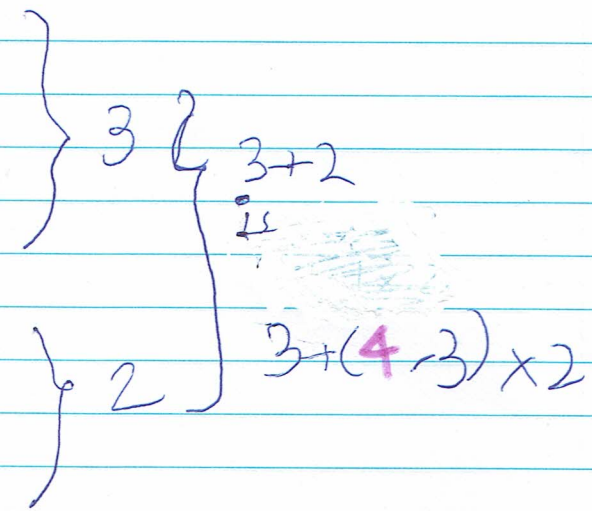
No of child  
3

			COUNTER
ccc			
	cc	→	1
c			cc
		←	c
cc			c
	cc	→	1
			ccc



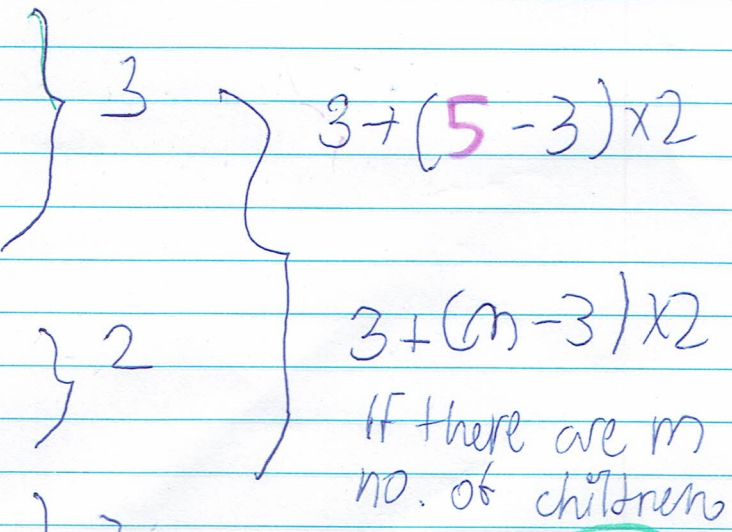
4

cccc			
	cc	→	
cc			cc
		←	c
ccc			c
	cc	→	
c			ccc
		←	c
cc			cc
	cc	→	
			cccc



5

ccccc			
	cc	→	
ccc			cc
		←	c
cccc			c
	cc	→	
cc			ccc
		←	c
ccc			cc
	cc	→	
c			cccc
		←	c
cc			ccc
	cc	→	ccccc



If there are  $m$  no. of children

P3/3