


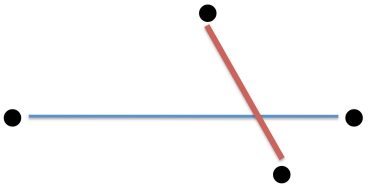
# THE GAME OF CRISS-CROSS

To begin with we have 4 ●'s (Dots/ Vertices) on the outside of our Game.

Add 1-7 more ● ... HOW MANY DID YOU ADD? \_\_\_\_\_

Decide who will play first. \_\_\_\_\_

On each turn, draw a line between any pair of dots that does not intersect any of the existing segments.

GOOD	AGAINST THE RULES
	

Circle the person who won your game:     *first person*   OR   *second person*

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Count how many there are of Dots (Vertices), Lines (Edges) & Areas (Faces)...

Vertices (Dots, ●)	Edges (Lines -----)	Faces (Regions)
$V =$	$E =$	$F =$

Vertices (Dots, ●)	Edges (Lines -----)	Faces (Regions)	WHO WON? 1 <sup>st</sup> or 2 <sup>nd</sup> Player
V =	E =	F =	
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

Do you see a pattern?

NAME \_\_\_\_\_

What if there was 101 dots? How many lines would we need to connect them all?