

## pretty cool math things using Net

Logo

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Hey! My class did a project called connect the dots! Or CTD for short. We gathered information using a website called <a href="Net Logo">Net Logo</a>! This is a cool post about my conjectures that I came up with and researched using Net Logo! Conjectures are inferences solely based on a very small about of information that can then be researched! I hope you enjoy my very first blog post!

## Before you continue, here are some very helpful definitions!

I actually came up with the conjecture: "when j is a multiple of d then there will be no lines" on accident!

I was just kind of exploring Net Logo and Put in some random numbers and this came about! I actually was curious about this topic, but, I didn't start gathering data until I put in those random numbers and then realized it would help me a lot!

I came up with this conjecture after trying out more numbers that aligned with my observations!

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conjecture: when j	is a multiple of	a then there will	be no lines		
observation: when	dot = 4 if and t	he jump size is a	multiple of four thar	there will never b	e a lin
d	j	Does it work?			
4	4	yes			
4	8	yes			
4	12	yes			
4	16	yes			
4	48	yes			
6	6	yes			
6		yes			
6	18	yes			
6	36	yes			
proved r	iaht				

You can see to the left, here are my examples and data for this conjecture.

You can see I
experimented
with two
different
numbers as my
Dot number and
a bunch of
different

numbers for my jump size.

As it shows below, you can see, My conjecture is "when J is a multiple of D then there will be no lines"

conjecture: when j is a multiple of d then there will be no lines

This is true because if you want lines to show up in net logo than you will need to not use the same multiple.

CONJECTURE:	if your d is an ev	en number and y	our j is an odd nu	ımber than it will ı	make some kind	of star like shape
d	j	Does it work?				
12	7	yes				
10	3	yes				
4	3	no				
proved	wrong	by 4 an	d 3			

Above, is an example of a conjecture that I proved wrong before I even gathered more data about it! This show that it is very easy to be proved wrong in projects like this! It is also true that there are so many things that you can prove right for every one you prove wrong (:

One setback that happened throughout the process of figuring out this conjecture was, I ended up proving myself long a lot! I didn't realize how tricky it would be to even just find a conjecture. Even with that

setback, this project was very fun and creative. I liked that we had full control of everything basically.

If you would like to see any of my other conjectures, Please click here!

Net logo is such a cool and creative website! It can be a little tricky at first but... once you get the hang of it, net logo can be super helpful (: