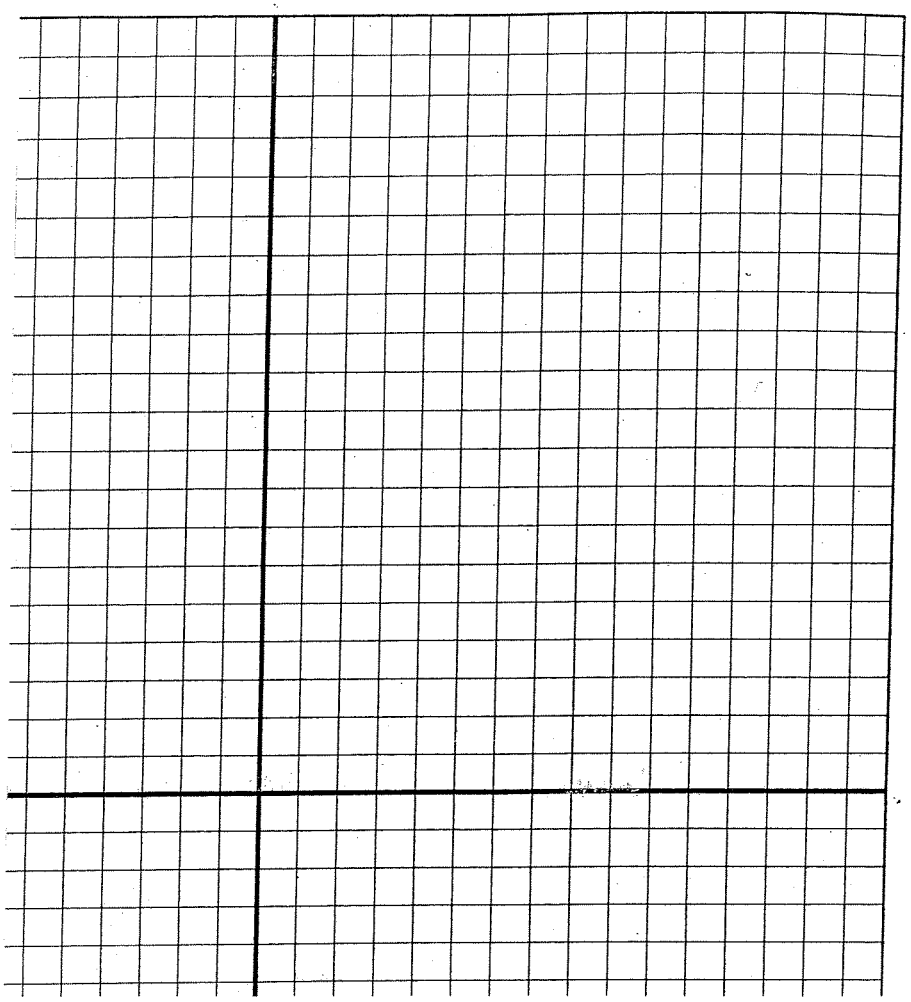
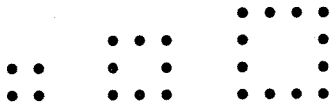
Session #25



Shown below are the first three squares in a pattern. Each square has one more dot on each side than the previous square.




a. How many dots are there in the fourth square?
b. How many dots are there in the 50th square?
c. Write an algebraic expression for the number of dots in the $n$th square.

d. Let $D_n$ = the number of dots in the $n^{th}$ square. Graph the relationship between $D_n$ and $n$.

e) Write a rule for determining $D_n$ given any $n$.