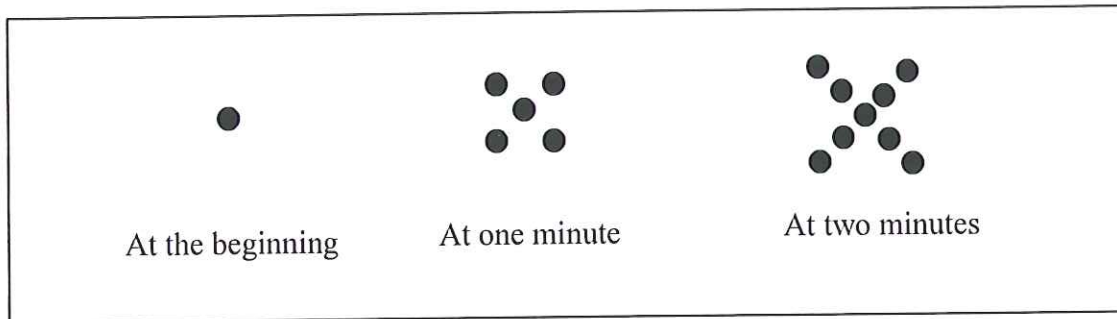


Growing Dots



Respond to the following questions:

1. Describe the pattern that you see in the above sequence of figures. Assuming the sequence continues in the same way, how many dots are there at 3 minutes? 100 minutes? t minutes?

Solve the problem by your preferred method. Your solution should indicate how many dots will be in the pattern at 3 minutes, 100 minutes, and t minutes. Did you think about these problems in different ways? Be sure to show how you arrived at your solution. How does your solution relate to the picture?

t	d
0	1
1	5
2	9
3	13
\vdots	\vdots
t	$4t + 1$

"Formula"

$$d = 4t + 1$$

$$d = 4(100) + 1$$

$$d = 400 + 1$$

$$d = 401$$