

- 1. Describe the pattern that you see in the sequence of figures above. Be sure to include any information about how the pattern is changing.
- 2. Assuming the sequence continues in the same way, how many dots are there at 3 minutes? Explain in words how you found your answer.
- 3. If there are 401 dots after 100 minutes, how many dots would there be after 103 minutes? Explain in words how you found your answer.

4. Draw a sequence that has 5 dots at the beginning, then continues in the same pattern as the sequence above. Describe the pattern.

- 5a. Write a recursive formula that describes the first sequence.
- 5b. Write a recursive formula that describes the sequence in #4.

