NAME:			

1. Create a geometric sequence. Write a recursive and explicit formula for your sequence.

2. Kara exercised 2 minutes a day the first week, 4 minutes a day the second, 8 minutes a day the third, and 16 minutes a day the fourth week. Describe the sequence, and predict whether she will be able to continue this pattern as she increases her exercise time.

- [1] Answers may vary. Sample: 3, 12, 48, ...; $a_n = 4a_{n-1}$, $a_n = 3$; $a_n = 3 \cdot 4^{n-1}$
- In this sequence, each number is two times the one preceding it. No, if Kara tries to continue this pattern [2]