

Exploring the World of Math

Name: _____ Date: _____

Sequences

1. Write a sequence from 1 to 20 that advances by 1

{ }

2. Write a sequence from 1 to 20 that advances by 3

{ }

3. Write a Fibonacci sequence from 1 to 610

F_1	F_2	F_3	F_4	F_5	F_6	F_7	F_8	F_9	F_{10}	F_{11}	F_{12}	F_{13}	F_{14}	F_{15}

4. Compute the following:

- a. F_7
- b. $F_7 + 5$
- c. F_{10-2}
- d. $F_{40/8}$
- e. $F_2 + F_4 + F_6$

5. Compute the next Fibonacci number after 34 and 55

6. Compute the Fibonacci number before 34 and 55

7. Compute the following:

- a. $\sqrt{16}$
- b. $\sqrt{5}$
- c. 7^2
- d. $(2 + 3)^2$
- e. $(1 + \sqrt{9})^2$
- f. 1.618^5

Homework

- 1. Describe three examples of Fibonacci sequence in nature?
- 2. Describe three examples of Fibonacci sequence in manmade objects?