Patterns Activity

Name _____

Goal: To identify, extend, and communicate clearly about numerical and geometric patterns

Look for a pattern in the following numerical sequences. Fill in the blanks, and briefly (and clearly!) explain the pattern or rule you used to complete the pattern.

1. 1, 5, 9, 13, ____, ___,

Explanation:

P.S. Is this sequence arithmetic, geometric, or neither of these?

2. 200, 100, 50, 25, ____, ____,

Explanation:

P.S. Is this sequence arithmetic, geometric, or neither of these?

3. 81, 100, 121, 144, ____, ___, ____,

Explanation:

4. 1, 8, 27, 64, ____, ____,

Explanation:

P.S. Is this sequence arithmetic, geometric, or neither of these?

5. 3, 5, 8, 12, ____, ____,

Explanation:

6. 5, 10, 20, 40, ____, ____,

Explanation:

P.S. Is this sequence arithmetic, geometric, or neither of these?

7. 1, 1, 2, 3, 5, 8, 13, ____, ___,

Explanation:

P.S. This sequence is known as "the Fibonacci Sequence".

8. 3, 4, 3, 4, 5, 3, 4, 5, ____, ____, ___, ___, 6, 7

Explanation:

Look for a pattern in the following geometric sequences. Fill in the blanks, and briefly explain the pattern or rule you used to complete the pattern.

9.	
	Explanation:
10.	
	Explanation:
	P.S. Is this sequence arithmetic, geometric, or neither of these?
11.	Explanation:
	P.S. Is this sequence arithmetic, geometric, or neither of these?
12.	
	Explanation:
13.	
	Explanation: