

1. Create a sequence that begins with 7 and increases by 11.

_____, _____, _____, _____, _____, ...

2. Create a sequence that begins with 4 and doubles.

_____, _____, _____, _____, _____, ...

3. Find the next number in each sequence and label them Arithmetic, Geometric, Other:

5, 8, 11, 14, 17, _____, ... _____

$\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, _____, ... _____

3, -6, 12, -24, 48, _____, ... _____

8, 88, 888, 8888, _____, ... _____

1, 1, 2, 3, 5, 8, 13, _____, ... _____

4. Write the general formula for the following sequences:

12, 17, 22, 27, 32, ... _____

15, 13, 11, 9, 7, ... _____

6, 30, 150, 750, ... _____

16, 8, 4, 2, 1, ... _____

5. Give the fifteenth number in each of the following sequences:

$2 + 3(n-1)$ _____

$7\left(\frac{1}{4}\right)^{n-1}$ _____

$28 - 5(n-1)$ _____

$2(3)^{n-1}$ _____