

Re-boot the mission: Series and Sums and so forth...

Name: _____

Series: $6 + 3 + 1.5 + \dots$

- 1.) Is this sequence Arithmetic or Geometric? Explain.
- 2.) Find the next three terms of this Series.
- 3.) What is S_{15}
- 4.) What is the infinite sum, S ? [This calculation includes all of the terms imaginable.]
- 5.) Why are S_{15} (which only adds up the first 15 terms) and S (which adds up millions+ of terms) basically the same value? In other words, shouldn't adding a billion numbers together add to WAY MORE than adding just the first 15 ??? Explain.

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