

**Sequences & Series Story Questions**

**Some hints for solving Story Questions:**

1. If possible, write out the first few terms of the series.
  2. Determine if it is Arithmetic or Geometric, and a Sequence or Series
  2. List "Given" and "Unknowns"
  3. Determine which formula(s) you need to use
  4. Solve and write a conclusion.
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1. A wall of blocks is built up so that each row has 2 less blocks from the previous row. If there are 43 blocks in the first row and 11 blocks in the top row, how many rows high is the wall?
  2. A stereo system costing \$1200 depreciates by 30 % per year. Find the value of the stereo after 6 years.
  3. Suppose you researched your ancestors back ten generations. How many people would you research?
  4. How many multiples of 5 are from 20 to 200?
  5. How many multiples of 6 are there between 10 and 1000?
  6. Determine the value of  $x$  such that,  $x - 4$ ,  $2x + 1$ ,  $5x + 4$ , are consecutive terms of an arithmetic sequence.
  7. Determine the value of  $x$  such that,  $x - 2$ ,  $2 - x$ ,  $x + 10$ , are consecutive terms of a geometric sequence.