Name: _____ **ANSWER KEY** _____

Sequence and Series Review

Skills and Concepts:

- Identifying whether a sequence or series is arithmetic, geometric, or neither
- Writing a function that generates a sequence of numbers, particularly linear and exponential functions
- Writing function rules using both recursive and closed/explicit formats
- Generating a table of values from a sequence or closed/explicit function rule
- Finding the nth term of a sequence given a rule and plug in the appropriate values
- Calculating the number of terms in a sequence (function rule = last term, solve for n)
- Applying Gauss' and Euclid's formulas to find sums of arithmetic and geometric series
- Find definite and indefinite sums using sigma notation
- Identify properties of Sigma
- Determine the number of terms being added in a series
- Identify whether a function is linear, quadratic, exponential or none of these
- Identify if the terms of a sequence have a limit
- Determine if the sum of a series has a limit and what that limit is

Mixed Problem Set:

1. State whether the sequence is arithmetic, geometric, or neither and state a function rule that will generate the given sequence (if it is arithmetic or geometric):

   a. 19, 6, 2, -2 …

   Arithmetic, subtract 4

   $19 - 4(n - 1) = 14 - 4n$

   b. 2, 6, 11, 18, 27 …

   Neither, adding 3, 5, 7, …

   c. -2, 6, -18, 54 …

   Geometric, multiply by -3

   $-2 \cdot (-3)^{n-1} = -2 \cdot (-3)^{n-1}$

   d. $\dfrac{1}{2}, \dfrac{1}{3}, \dfrac{1}{4}, \dfrac{1}{5} \ldots$

   Neither, $\dfrac{1}{n+1}$

2. Given an arithmetic sequence where $t_1 = 8$ and $t_5 = 16$. Find t_n.

   4 steps from 8 to 6 adds 10 so the difference is $10/4 = 2.5$ each step.
   $t_n = 8 + 2.5n$ or $t_n = 8 + 2.5(n-1) = 15.5$

3. Write a recursive rule for the sequence (18, 6, 2, 100).

   $f(n) = \begin{cases} 108 & n = 0 \\ f(n-1) \cdot 3 & n > 0 \end{cases}$

Answer Key Lexington

Walch,Walch Publishing

Answer Key Lexington:

Focus on Reading Walch,Walch Publishing,2002   **Hard Times/hard War** Kenneth Elkins,1996   *Summer Bridge Explorations, Grades 2 - 3* ,2015-04-27 Summer Bridge Explorations prepares your second grade graduate for third grade through progressive lessons and project based learning This dynamic workbook strengthens cross curricular skills with a focus on arithmetic grammar and comprehension Summer Bridge Explorations makes learning last With this dynamic series students entering grades 1 to 4 prepare for the new year through project based learning Grade level workbooks are divided into three progressive sections one for each month of summer and each of these sections is built around a theme based activity that connects real world learning with summer fun Your child will keep learning alive by applying new skills in fun ways all while enjoying everything summer has to offer Lessons and activities span the curriculum supporting growth in math reading writing social studies science and the arts   *Lumber World Review* ,1920   *J.J. Johnson Exercise* ,1987   **The South Western Reporter** ,1916 Includes the decisions of the Supreme Courts of Missouri Arkansas Tennessee and Texas and Court of Appeals of Kentucky Aug Dec 1886 May Aug 1892 Court of Appeals of Texas Aug 1892 Feb 1893 Jan Feb 1928 Courts of Civil and Criminal Appeals of Texas Apr June 1896 Aug Nov 1907 Court of Appeals of Indian Territory May June 1927 Jan Feb 1928 Courts of Appeals of Missouri and Commission of Appeals of Texas   *Motor Age* ,1926   **The Northeastern Reporter** ,1927 Includes the decisions of the Supreme Courts of Massachusetts Ohio Indiana and Illinois and Court of Appeals of New York May July 1891 Mar Apr 1936 Appellate Court of Indiana Dec 1926 Feb 1927 Mar Apr 1936 Courts of Appeals of Ohio   Chester O. Peterson Exercise ,1987   **Motor Truck** ,1923   *The Canadian Patent Office Record and Register of Copyrights and Trade Marks* ,1921   **Belt Fire Exercise** ,1989   **Scientific Canadian Mechanics' Magazine and Patent Office Record** Canada. Patent Office,1921   The Monthly Musical Record ,1893   *Problem on Dragline 1 Exercise* ,1989   Tipple Heater Exercise ,1989   Cecil Exercise ,1987   **Vulcan Mine Ignition Exercise** ,1987   *Traumatic Head Injury Exercise* ,1987   Tom A. Arnette Exercise ,1989

The book delves into Answer Key Lexington. Answer Key Lexington is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Key Lexington, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Answer Key Lexington
   - Chapter 2: Essential Elements of Answer Key Lexington
   - Chapter 3: Answer Key Lexington in Everyday Life
   - Chapter 4: Answer Key Lexington in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Answer Key Lexington. The first chapter will explore what Answer Key Lexington is, why Answer Key Lexington is vital, and how to effectively learn about Answer Key Lexington.
3. In chapter 2, the author will delve into the foundational concepts of Answer Key Lexington. The second chapter will elucidate the essential principles that need to be understood to grasp Answer Key Lexington in its entirety.
4. In chapter 3, the author will examine the practical applications of Answer Key Lexington in daily life. The third chapter will showcase real-world examples of how Answer Key Lexington can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Answer Key Lexington in specific contexts. This chapter will explore how Answer Key Lexington is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Answer Key Lexington. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key Lexington.

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