

Arithmetic & Geometric Progression (worksheet #1)

1.
 - a. The first three terms, all positive, of a certain GP are $x - 4$, x , $5x - 12$. Find:
 - i. The value of x
 - ii. The value of the fourth term.
 - b. In a certain AP the sum of n terms, denoted by S_n is given by $S_n = 2n^2 + 3n$. Obtain and simplify the expression which gives S_{n-1} in terms of n . hence, or otherwise, find:
 - i. The n th term as an expression in n .
 - ii. The value of the first term.
 - iii. The value of the common difference.
2. Find the least number of terms of the GP 24, 36, 54... Which must be taken for their sum to exceed 2000.
3. The n th term of a progression is $np + q$ and the sum of n terms is denoted by S_n . Given that the 6th term is 4 times the 2nd term and that $S_3 = 12$, find the value for p and q . Express S_n in terms of n .
4. An AP is such that the sum of the first 10 terms is 3 times the sum of the first 5 terms. Find the ratio of the 10th term to 5th term.
Given that the 5th term is 0.14, calculate the sum of the first 200 terms.
5.
 - a. A length of 200 is divided into 25 sections whose lengths are in AP. Given that the sum of the lengths of the 3 smallest sections is 4.2cm, find the length of the largest section.
 - b. An infinite geometric series has a finite sum. Given that the first term is 18 and the sum of the first 3 terms is 38, calculate the value of
 - i. The common ratio.
 - ii. The sum to infinity.
6.
 - a. A straight path is made by laying paving slabs end to end. The slabs are laid in order of size and their lengths are in AP. Given that the shortest slab is 0.79m long, that the longest slab is 1.24m long and the difference in lengths of adjoining slabs is 0.025m, calculate
 - i. The number of slabs used.
 - ii. The length of the path.The cost of the slabs are also in AP and vary from \$2.16 for the smallest to \$3.24 for the largest. Find the total cost of the slabs in the path.
 - b. The first term of a GP is a and the common ratio, r , is positive. Given that the sum of the second and third terms is $\frac{10a}{9}$, calculate the value of r .
Given also that the sum of the first 4 terms is 65, calculate the value of a and hence the sum to infinity of the GP.
7.
 - a. An AP is such that the fifth term is 22 and the sum of the first eight terms is 66. Find the first term.
 - b. The lengths of the sides of a triangle are in GP and the longest side has a length of 36cm. Given the perimeter is 76cm, find the length of the shortest side.
 - c. The first and fourth term of a GP are 500 and 32 respectively. Find:
 - i. The values of second and third term.
 - ii. The sum to infinity of the progression.

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Table of Contents Maths Paper 1 9709 2013

1. Understanding the eBook Maths Paper 1 9709 2013
 - The Rise of Digital Reading Maths Paper 1 9709 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 9709 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper 1 9709 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 9709 2013
 - Personalized Recommendations

- Maths Paper 1 9709 2013 User Reviews and Ratings
- Maths Paper 1 9709 2013 and Bestseller Lists
- 5. Accessing Maths Paper 1 9709 2013 Free and Paid eBooks
 - Maths Paper 1 9709 2013 Public Domain eBooks
 - Maths Paper 1 9709 2013 eBook Subscription Services
 - Maths Paper 1 9709 2013 Budget-Friendly Options
- 6. Navigating Maths Paper 1 9709 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 1 9709 2013 Compatibility with Devices
 - Maths Paper 1 9709 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 1 9709 2013
 - Highlighting and Note-Taking Maths Paper 1 9709 2013
 - Interactive Elements Maths Paper 1 9709 2013
- 8. Staying Engaged with Maths Paper 1 9709 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 1 9709 2013
- 9. Balancing eBooks and Physical Books Maths Paper 1 9709 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 1 9709 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 1 9709 2013
 - Setting Reading Goals Maths Paper 1 9709 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 1 9709 2013
 - Fact-Checking eBook Content of Maths Paper 1 9709 2013

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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