

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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