

## PRACTICE TEST: CLASS-X ARITHMETIC PROGRESSION

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1. The sum of 5<sup>th</sup> and 9<sup>th</sup> terms of an A.P is 72 and the 12<sup>th</sup> term is 97. Find the A.P.
2. A sum of Rs. 1000 is invested at 8% simple interest per annum. Calculate interest at the end of 1, 2, 3... years. Is the sequence of interest an A.P? Find the interest at the end of 30 years.
3. The sum of 4<sup>th</sup> and 8<sup>th</sup> terms of an A.P is 24 and the sum of 6<sup>th</sup> and 10<sup>th</sup> terms is 44. Find the A.P.
4. The sum of the first 7 terms of an A.P is 63 and the sum of its next 7 terms is 161. Find the 28<sup>th</sup> term of this.
5. The first and the last term of an A.P are 7 and 49 respectively. If the sum of all its terms is 420, find its common difference.
6. The n<sup>th</sup> term of an A.P is  $6n+2$  find the common difference.
7. Find the middle term of the A.P 7, 13, 19.....241.
8. Find the four number in A.P, whose sum is 50 and in which the greatest number is 4 times the least.
9. Divide 32 into four parts which are in A.P such that such that the product of extremes to the product of means is 7:15.
10. A small terrace at a football ground comprises of 15 steps, each of which is 50m long and built of solid concrete, Each step has a rise of  $\frac{1}{4}$ m and a tread of  $\frac{1}{2}$ m. Calculate the total volume of concrete required to build the terrace.