



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS CH:5- ARITHMETIC PROGRESSION

Name: _____

Date: _____

Class: X Sec: ____

1.	What is the common difference of the arithmetic progression 10, 5, 0, -5?
2.	Find the sum of the first 10 natural numbers.
3.	Let a_n be an arithmetic progression, for which the first term $a_1=1$ and common difference $d=1$. Find a_{1083}
4.	Let a_n be an arithmetic progression, for which $a_1+a_2+a_3=102$ and $a_1=15$, Find a_{10} .
5.	Let $\{a_n\}$ be an arithmetic progression. If $a_3+a_8+a_{10}+a_{16}+a_{18}+a_{23}=126$, find the sum of the first 25 members of $\{a_n\}$
6.	Find the absolute value of the difference of the arithmetic progression a_n if $a_1+a_2=5$ and $a_{21}+a_{22}=13$
7.	How many hours would it take for a biker to travel 54 km if the first hour he traveled 15 km and each subsequent hour he traveled 1 km less than the hour before?
8.	If a_n is an arithmetic progression, for which $a_{10}=15$ and $a_5=5$, find a_1 .
9.	Solve the equation $1+4+7+\dots+x=925$