

Modulo Airthmetic Work Sheet: 08-IP-01-WS



Introduction:

Questions: (* questions can be used for evaluation)

- 1. Can you identify if the below numbers are in arithmetic progression? Write down the reason for your answer in each case
 - a) {1, 2, 3, 4, 5, 6, 7, 8}
 - b) *{-1,1,3,5,7,9}
 - c) *{1,5,8,1,5,8}
- 2. In your school can you identify some patterns that are repeating itself?
- 3. With your knowledge on modulo arithmetic can you solve the following?
 - a. * 24 Mod 12 =
 - b. * 15 Mod 30 =
 - c. Can you identify a relationship between the first and second problem?
 - d. * 10 Mod 7 =
 - e. * 23 Mod 2 =
 - f. If 10 Mod x = 1 can you find one value of x
 - g. If 20 Mod x = 3 then find x
 - h. If $X \mod 5 = 3$ can you find one value of x
 - i. If $x \mod 7 = 2$ can you find one value of x

Name: Class: Div: Roll. No: