

Worksheet

- 1) If $3m$ is the middle number in a set of 9 consecutive odd numbers then find smallest and largest number.
- 2) Which of the following will leave an even remainder when divided by 5?
a) $5m-1$ b) $5m+3$ c) $5m-2$ d) $5m-4$
- 3) Which of the following will leave a remainder 5 when divided by 9?
a) $27m+13$ b) $18m-4$ c) $9m-5$ d) $27m+18$
- 4) Which of the following is divisible by 3 but not by 9?
a) 232107 b) 461124 c) 987678 d) 361827
- 5) If $4xy7$ is exactly divisible by 3 then the least value of $(x+y)$ is ?
- 6) $x4y5z$ is exactly divisible by 9 then least value of $(x+y+z)$ is ?
- 7) If $6m926n$ is a multiple of 15 list all possible pairs of m and n .
- 8) Find remainder when
a) $9x+8$ divided by 3
b) $10x+7$ divided by 5 c) $7p-2$ divided by 7

9) Write parity of each

a) $61 + 56 - 45 + 33$ b) $71 - 73 + 75 + 77$

c) $94 + 95 - 96 + 97 - 98 + 99$

10) Sum of 6 consecutive even number is 150. Find smallest and largest number.

11) Find digital root of $18a + 27b + 16$.

12) ~~Is~~ $5(7b-2) - 4(4b+1)$ divisible by 4?

13) Find the remainder when $11n - 25$ divided by 11.

14) The units digit of a two digit number is 3 and seven times the sum of the digits is the number itself. Find the number.