Arithmetic Progressions

Arithmetic Mean Exercise

- Q.1 Find the four numbers in A.P., whose sum is 50 and in which the greatest number is 4 times the least.
- **Q.2** Find the sum of n terms of an A.P. whose nth terms is given by $a_n = 5 6n$.
- **Q.3** Show that the sum of all odd integers between 1 and 1000 which are divisible by 3 is 83667.
- **Q.4** In an A.P., if the 5th and 12th terms are 30 and 65 respectively, what is the sum of first 20 terms.
- **Q.5** The production of TV in a factory increases uniformly by a fixed number every year if produced 8000 acts in 6th years & 11300 in 9th year find the production in

(i) first year (ii) 8th year (iii) 6th year.

ANSWER KEY

- **1.** 5, 10, 15, 20
- **2.** n (2 3n)
- **4.** 1150
- **5.** (i) 2500 (ii) 10200 (iii) 31500