(32) The last term of a series=157, common difference=3, and number of terms=51; find the sum of the series. Ans. S =4182.

(33) Given the last term of a series=97, number of terms=11, sum of the series=2489, to find the common difference. Ans. d=$20\frac{2}{3}$.

(34) A person spends $\frac{1}{2}$d. more on the 2nd January than on the first; $\frac{1}{2}$d. more on the 3rd than on the 2nd, and so on; at the end of the year he finds that he has spent £155 2s. 6d., what was his outlay on the 31st December. Ans. l =16s. 1d.

(35) Find the number of terms in the series of which 18000 is the sum, 10 the common difference, and 595 the last term. Ans. n=60.

(36) Find the sum of the odd numbers from 1 to 99 inclusive. Ans. S=2500: Also of the even numbers from 2 to 100 inclusive. Ans. S=2550.

(37) Given the sum of a series=2625, first term=5, and last term =245, to find the common difference. Ans. d=12.

(38) Find the first term of the series of which the sum=2288, last term=95, and common difference=2. Ans. a=9.

(39) What is the last term of the series of which the first term =—5, the sum=196, and the common difference=11. Ans. l=61.

(40) Required the sum of the series 1, 2, 4, 8, 16, &c. to 10 terms. Ans. S=1023. Required the sum of the series 2, 6, 18, 34, &c. to 8 terms. Ans. S=6560.

(41) What is the first term of the geometrical series of which the sum=682, the number of terms=5, and the common ratio =4? Ans. a=2.

(42) Required the last term of a series of which the first term=3, the number of terms=10, and the common ratio=8. Ans. l=402653184.

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