DEPARTMENT OF MATHEMATICS

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1st October 1963

Dear Tom,

I enclose an application form for ATM.

Their journal is ~~the~~ Mathematics Teaching. Roneo from 1955 - printed from 1962 (I think that date must be wrong). Liverpool Institute have copies from 1960. Bill Brookes here has some back copies which he can loan or preferably sell you if you can't get hold of the Institute ones.

The National Council of Teachers of Mathematics publishes 'Mathematics Teacher' and 'Arithmetic Teacher'. Unfortunately the Liverpool Institute Library has neither of these. The Council also publishes year books. The present one is number 28. They each have a special title

so the best way to find them will be to visit the Institute Library. Many of them are referred to in the Bibliography produced by Bill Brooks of which Portsea has 30 copies.

I was wrong about the Maths Teaching reprinting from the Maths Teacher. The reprints were from Bulletin de l'Association des Professeurs de Mathematiques de l'Enseignement Public.
The corresponding Belgian journal, which started at about the same time as ATM is Mathematica et Paedagogia which is said to be first rate.

Looking forward to being reunited with my widget.

Yours

Frank

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I observe that no probability theory book discusses the existence of limits of arithmetic means, but simply sets to work to approximate to them.

Now if $\frac{s_1 + \cdots + s_n}{n} \to l$,

$s_n = o(n)$,

and it is easy to show that if the s_n are bounded, then the means tend to a limit. But the only $N \neq S$ conditions which I have been able to find are in terms of the series Σa_n of which the s_n are partial sums.

Do you know any conditions on a sequence of terms a_n which are $N+S$ for the convergence of the sequence of arithmetic means?

F.