
Zbl 386.10002

Erdős, Paul; Straus, E.G.

On products of consecutive integers. (In English)

Number Theory and Algebra; Collect. Pap. dedic. H.B. Mann, A.E. Ross, O. Taussky-Todd, 63-70 (1977).

[For the entire collection see Zbl 356.00004.]

The authors investigate various problems associated with the divisibility properties of $A(n,k) = \frac{(n+k)!}{n!}$. One such problem is to estimate $f(n,k)$ which denotes the least positive integer $m > n$ so that $A(m,k)$ is divisible by $A(n,k)$. Another problem relates to deciding whether for given $n > 1$ and all (or at least almost all) large m there exists k, where $1 \leq k \leq m-n$, such that $\binom{k+n}{n} | \binom{m+k}{k}$.

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Classification:
11A05 Multiplicative structure of the integers
11A07 Congruences, etc.
11B39 Special numbers, etc.