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Erdős, Paul; Schönheim, J.

Sets versus divisors. (In English)

Miklós, D. (ed.) et al., Combinatorics, Paul Erdős is eighty. Vol. 2. Budapest: János Bolyai Mathematical Society, Bolyai Soc. Math. Stud. 2, 193-212 (1996). [ISBN 963-8022-75-2/hbk]

Results on extremal families of divisors of numbers which are counterparts of known extremal set theory results are surveyed. Those properties considered include types of Sperner, Erdős-Ko-Rado, nonextendibility, restrictions on unions, intersections, inclusion, etc. Finally, a simple proof is given to a theorem of *M. Geréb* [On the smallest maximal sets of nonpairwise coprime divisors of a number (in Hungarian), *Mat. Lapok* 24, 375-380 (1973; Zbl 361.10007)].

P. Komjáth (Budapest)

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