Zbl 258.05132
Brown, William G.; Erdős, Paul; Sos, V.T.
Some extremal problems on r-graphs. (In English)
New Direct. Theory Graphs, Proc. third Ann Arbor Conf., Univ. Michigan 1971, 53-63 (1973).

[For the entire collection see Zbl 253.00004.]

The main result of this paper consists of the determination, by "probabilistic" methods, of a lower bound for a number $f^{(r)}(n; k, \ell)$ defined to be the smallest integer T such that every selection of T distinct r-subsets from an n-set Ω includes at least ℓ distinct r-subsets of some k-subset of Ω; (the prefixes refer to cardinality). The bound obtained improves on the authors' earlier results for $r = 3$.

Classification:
05C35 Extremal problems (graph theory)
04A20 Combinatorial set theory