

**Drápal, A.; Kepka, T.**

**Sets of associative triples.** (English) Zbl 0612.05003

Eur. J. Comb. 6, 227-231 (1985).

Authors' summary: "A subset  $R \subseteq S^3$  will be called (associatively) admissible if there exists a binary operation  $*$  defined on  $S$  such that  $x*(y*z) = (x*y)*z$  iff  $(x,y,z) \in R$ . If  $S$  is finite,  $\text{card}(S) = n$ ,  $R \subseteq S^3$ ,  $\text{card}(R) = r$  and  $r \leq n/4 - 3/4$  or  $n^3 - n/4 + 1/2 \leq r$ , then  $R$  is admissible. There exists an admissible subset for any  $0 \leq r \leq n^3$  and a non-admissible subset for  $3n \leq r \leq n^3 - n + 2$ ."

Reviewer: [K.Burian](#)

**MSC:**

**05A05** Permutations, words, matrices

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**Keywords:**

[admissible subset](#)

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