

Year: 2020

Vol.: 96

Fasc.: 3-4

**Title:** Menon-type identities again: A note on a paper by Li, Kim and Qiao

**Author(s):** Pentti Haukkanen and László Tóth

We give common generalizations of the Menon-type identities by Sivaramakrishnan (1969) and Li, Kim, Qiao (2019). Our general identities involve arithmetic functions of several variables, and also contain, as special cases, identities for gcd-sum type functions. We point out a new Menon-type identity concerning the lcm function. We present a simple character-free approach for the proof.

**Address:**

Pentti Haukkanen  
Faculty of Information Technology  
and Communication Sciences (ITC)  
Tampere University  
FI-33014 Finland

**Address:**

László Tóth  
Department of Mathematics  
University of Pécs  
Ifjúság útja 6  
7624 Pécs  
Hungary