

## Accepted Manuscript

Spontaneous focusing on quantitative relations as a predictor of rational number and algebra knowledge

Jake McMullen, Minna M. Hannula-Sormunen, Erno Lehtinen

PII: S0361-476X(17)30233-3

DOI: <https://doi.org/10.1016/j.cedpsych.2017.09.007>

Reference: YCEPS 1652

To appear in: *Contemporary Educational Psychology*

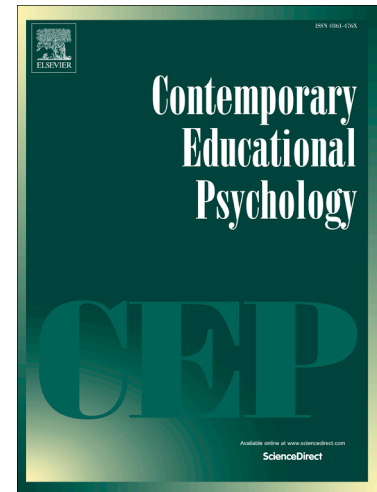
Received Date: 21 December 2016

Revised Date: 11 September 2017

Accepted Date: 20 September 2017

Please cite this article as: McMullen, J., Hannula-Sormunen, M.M., Lehtinen, E., Spontaneous focusing on quantitative relations as a predictor of rational number and algebra knowledge, *Contemporary Educational Psychology* (2017), doi: <https://doi.org/10.1016/j.cedpsych.2017.09.007>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Spontaneous focusing on quantitative relations as a predictor of rational number and algebra  
knowledge**

Jake McMullen, Minna M. Hannula-Sormunen, and Erno Lehtinen

Jake McMullen, Centre for Research on Learning and Instruction and Department of Teacher Education, University of Turku, Finland; Minna M. Hannula-Sormunen, Centre for Research on Learning and Instruction and Department of Teacher Education, University of Turku, Finland; Erno Lehtinen, Centre for Research on Learning and Instruction and Department of Teacher Education, University of Turku, Finland

Corresponding Author:

Jake McMullen  
Department of Teacher Education  
Turun Yliopisto, 20014  
Finland

Email: [jake.mcmullen@utu.fi](mailto:jake.mcmullen@utu.fi)  
Phone: +35823338606

**Acknowledgements**

The present study was funded by grant 274163 awarded to the last author by the Academy of Finland. We would like to thank the participants, teachers, and testers, without whom this study would not have existed.

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات