


SpringerReference 

Home For Librarians Help My SpringerReference J r Dgydqfng#hduEk

Authors

Professor Bharath Sriraman
Per Haavold
Prof. Kyeonghwa Lee

Editor

Professor Stephen Lerman

Free Articles

Ethnomathematics of the Incas



Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures

Birth



Encyclopedia of Medical Anthropology

Fatherhood and Motherhood



Encyclopedia of Sex and Gender

Ethnobotany of the Incas



Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures

Water



Encyclopedia of Global Justice

More Free Articles

Session History (max. 10)

Bharath Sriraman
Argumentation in Mathematics
Argumentation in Mathematics
Education

Humanities, Social Sciences and Law > Encyclopedia of Mathematics Education > Creativity in Mathematics Education

This is the free portion of the full article. The full article is available to licensed users only. How do I get access?

Creativity in Mathematics Education

Definition

In the field of professional mathematics, the creative mathematician is a rarity. At this level mathematical **creativity** implies mathematical giftedness, but the reverse is not necessarily true (Sriraman, 2005). Usiskin's (2000) eight tiered hierarchy of creativity and giftedness in mathematics further **shed** some light of this view of the relationship between creativity and giftedness in professional mathematics. In his model, mathematically gifted individuals such as professional, working mathematicians are at level five, while creative mathematicians are at level six and seven. However, the relationship between giftedness and creativity has been the subject of much controversy (Leikin, 2008; Sternberg & O'Hara, 1999) as some see creativity as part of an overall concept of giftedness (Renzulli, 1986). In this entry the relationship between mathematical creativity and giftedness and ability will be looked at through a synthesis of some ... [read more]

Read full article
How do I get access?