

ZMATH 2013e.00275

Toh, Tin Lam

Mathematics competition questions and mathematical tasks for instructional use.

Kaur, Berinderjeet (ed.), Nurturing reflective learners in mathematics. Yearbook 2013, Association of Mathematics Educators. Hackensack, NJ: World Scientific (ISBN 978-981-4472-74-6/hbk; 978-981-4472-77-7/ebook). 189-207 (2013).

Summary: Mathematics competition questions are useful resources for teachers to craft mathematical tasks for instructional purposes. These tasks could serve two objectives: to develop (i) students' interest in mathematics and (ii) higher order thinking skills in the subject. The learning experiences provided by these tasks are rich and certainly appropriate for nurturing reflective learners. This chapter illustrates through examples how mathematics competition questions may be crafted into useful tasks for use in classrooms to advance the above two objectives.

Classification: D50 U40 C30

Keywords: reflective learning; mathematics competitions; competition questions; mathematical tasks; instructional use; student's interest; thinking skills; higher order thinking; reasoning

doi:10.1142/9789814472760_0010