

## **New School Mathematics as Knowledge in Teaching Mathematics for the 21<sup>st</sup> Century**

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After entering the 21<sup>st</sup> century, the focus on teaching mathematics has been changed from traditional knowledge to "thinking skills". However, what is important when teaching such a way. In other words, what is new aspect of the contents or subject matters of mathematics needed for teaching thinking skills. Certainly, "students' ideas" is the most important part of it and this could be intrigued by engaging students with non-routine or open-ended problem. More importantly, in the classroom, students have to have a chance to solve their own problem by themselves. In this sense, students' ideas are the central issue of new school mathematics. For example, decision making and the flexibility of thinking should be a part of contents of mathematical knowledge for teaching. From this approach, it transforms school mathematics as a driving force developing thinking skills.