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**Ellina Grigorieva\*** (egrigorieva@twu.edu), PO BOX 425262, Denton, TX 76204. *Problems and methods that develop creativity.*

It is known that students have a hard time when trying to solve math problems involving integers, perhaps due to the fact that they study numbers in elementary school and basically never touch the topic again throughout the entire math curriculum. Many don't find arithmetic problems interesting or of much use in our everyday life, but nevertheless it is important because solving problems empowers us. This talk will be focused on methods of solving challenging math problems. It will demonstrate connection between different fields of mathematics and how presented collection of the problems can develop creative thinking and ability to conduct own proof. Additionally, this presentation and handouts can be helpful for math teachers and college professors who would like to use it as an extra resource in their classroom. (Received September 09, 2013)