

1086-G5-1912 **Heidi Hulsizer*** (hhulsizer@hsc.edu), P.O. Box 142, Hampden-Sydney, VA 23943. *Algebra in
Call of Duty: Black Ops?*

The video game Call of Duty: Black Ops is popular to an audience of college students and surprisingly we can use algebra to solve a problem that appears in the game. The problem involves turning dials to reach a solution, but turning one dial also turns others. Two perspectives on the solution will be presented; one involves solving a system of equations modulo ten and the other involves converting a directed graph with four vertices into a matrix equation. This example provides an affirmative answer to the question, will I ever use math in real life? (Received September 24, 2012)