

1125-O5-1938      **Peter G Hardy\*** ([peter.hardy@maine.edu](mailto:peter.hardy@maine.edu)), 111 South Street, Farmington, ME 04938. *Survivor Math - Incorporating a Semester-Long Research Project in Environmental Sustainability into an Introduction to Mathematics General Education Course.*

It is late October of 2016. Two weeks ago a coordinated series of terrorist attacks has effectively cut off the flow of oil from the Middle East. The world is in chaos. The United States government has declared a state of emergency for the entire country. Gasoline is being rationed and when it is available the prices are exorbitant. A blackout of the entire region began three days ago and there has been no word as to when electric service will be restored. The university has closed its doors and told all of its students to go home. You would love to go home, except that all of the gasoline in your car has been siphoned off and there is nowhere you can buy more to refill the tank. Luckily, you remember that your forward-thinking math professor predicted just such a scenario and began to prepare for it several years ago. Upon walking the few miles to his house you soon realize that your entire math class has had the same idea of joining him! Your task is to find a way to survive. Start with the short-term because there is no need for long-term planning if you don't make it through the winter. What are the basic necessities for human survival? How much of these resources will be needed to keep twenty-five of you alive for the next week? The next month? The next year? (Received September 19, 2016)