

Quantitative Reasoning 28: The Magic of Numbers

Homework 11

Assigned on March 7

Due at 5:00 p.m. March 9

Please submit problem sets to the boxes outside the Math Department's main office, on the third floor of the Science Center (Room 325).

Reading:

Gross-Harris, Chapter 9

Problems:

Please explain your reasoning and show your work.

1. Find whole numbers x and y such that $176x + 84y = 6$.
2. Find whole numbers x and y so that $51x + 147y = 6$ *and* such that x is positive.
3. Describe how you could measure 2 cups of water given that you have three measuring cups, one for 12 cups, one for 20 cups, and one for 30 cups.