

CAAP Math, Mr. Church, Homework 8

Due at the beginning of class on Wednesday, August 6

<http://www.math.uchicago.edu/~tchurch/>

1. Read Section 4.3, “The Fundamental Theorem of Arithmetic” and Section 5.1, “Applications of Divisibility”.
2. Do Exercises 4.14, 4.15, 4.16, and 4.17. For 4.14, one way to prove two GCDs—say, $\gcd(x, y)$ and $\gcd(z, w)$ —are equal is to show that anything which divides both x and y must divide both z and w , and conversely that anything that divides both z and w must divide x and y .