Lecture 8, class activity. Euclidean algorithm.

- 1. Let m = 13 and n = 76.
 - (a) Compute the prime factorization of both m and n.
 - (b) Use this prime factorization to obtain the gcd(m, n).
 - (c) Now use the Euclidean algorithm to obtain gcd(m, n).
 - (d) (Which one was faster?)

2. Let m = 72 and n = 108. Answer (a)—(d) as for the last problem.

- 3. Now let m = 11223344 and n = 22446690.
 - (a) Compute gcd(m, n) however you like.
 - (b) Why did you choose the method that you did?