1124-13-43 **D. D. Anderson*** (dan-anderson@uiowa.edu), Department of Mathematics, The University of Iowa, Iowa City, IA 52242, and **Erik Hasse**, Department of Matheamtics, The University of Iowa, Iowa City, IA 52242. *Putting or Reducing Fractions to Lowest terms.* Preliminary report.

Let D be an integral domain and let a,b,c,d,e be nonzero elements of D. The fraction c/d is in (strongest)lowest terms if gcd(a,b)=1 (lcm(a,b)=ab). The fraction a/b can be put in (strongest) lowest terms if a/b = c/d where c/d is in (strongest) lowest terms and can be reduced to (strongest) lowest terms if there is an e with c = a/e and d = b/e. We investigate when a fraction a/b can be put or reduced to (strongest) lowest terms and integral domains for which each fraction a/b can be put or reduced to (strongest) lowest terms. (Received August 16, 2016)