1112-30-324 **Thomas W. Tucker*** (ttucker@colgate.edu). *Kulkarni's Theorem and finite groups acting on a surface of genus g with $g-1$ prime.* Preliminary report.

Suppose the finite group G acts, preserving orientation, on an orientable surface of genus $p+1$ where $p>5$ is prime. Then G is almost Sylow-cyclic (the Sylow p-subgroup G_p is cyclic if p is an odd prime and G_2 has a cyclic subgroup of index at most two) and does not contain $C_2 \times C_4$. In particular, by Kulkarni's Theorem, G acts preserving orientation on all but finitely many orientable surfaces. This also holds for G acting on a non-orientable surface S with $\chi(S) = -p$, where again $p>5$ is prime. On the other hand, $C_p \times C_p$ acts on the surface of genus $p+1$ for $p = 3, 5$. (Received August 07, 2015)