

Lagrange's  
Thm



Cor. 5

Cor. 1  $\forall a \in G, o(a) | o(G)$



Cor. 2  $\forall a \in G, a^{o(G)} = e$



Cor. 3 Number Theory Result  
(Euler, early in 1700)



Cor. 4 Fermat's Little Theorem  
(from 1600s)