

## LAGRANGE'S THEOREM – PRACTICE

Notation: The number of elements in a group (or set)  $G$ , also called the order of  $G$ , is denoted by  $|G|$ .

Theorem: If  $H$  is a subgroup of a finite group  $G$ , then the order of  $H$  is a divisor of the order of  $G$ .

Proof: