Propr: YacG, at is unique Cancellation Law left cancellation law: $a \cdot b = a \cdot c$, $a, b, c \in G$ =) h= c right cancellation law a.b = c · b =) a = c Prop 3: Cancellation Law Holds In a Pro.f. (G,.) a.b = a.c a-1. (a.b) = a-1. (a.c) Id. Asol (a-1.a) , b = (a-1,a). c e.b = e.c 6 = c More examples 1) Zn, integers modulo n operation in 25?

- 1) addition modulo 5
- 2) Multiplication modulo 5

Cayley Table

$$(a, \cdot)$$

finite group

