## Reading Quiz §3

Consider the group $\mathbb{Z}_{10}$ under addition modulo 10 .
That is the set of equivalence classes on $\mathbb{Z}$ where $a$ is equivalent to $b$ if $a \equiv b \bmod 10$.

1. [1] What is the order of $\mathbb{Z}_{10}$ ?
2. [1] What is the order of [2] (i.e. the equivalence class of 2 ) in $\mathbb{Z}_{10}$ ?
3. [1] Find a subgroup of $\mathbb{Z}_{10}$.
4. [2] Find the center of $\mathbb{Z}_{10}$.
