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 $a \equiv b \mod 10$.

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} .