$\mathbb{Z}^*(3)$	1	2
1	1	2
2	2	1

$\mathbb{Z}^*(4)$	1	3
1	1	3
3	3	1

$\mathbb{Z}^*(5)$	1	2	3	4
1	1	2	3	4
2	2	4	1	3
3	3	1	4	2
4	4	3	2	1

$\mathbb{Z}^*(6)$	1	5
1	1	5
5	5	1

$\mathbb{Z}^*(8)$	1	3	5	7
1	1	3	5	7
3	3	1	7	5
5	5	7	1	3
7	7	5	3	1

$\mathbb{Z}^*(9)$	1	2	4	5	7	8
1	1	2	4	5	7	8
2	2	4	8	1	5	7
4	4	8	7	2	1	5
5	5	1	2	7	8	4
7	7	5	1	8	4	2
8	8	7	5	4	2	1

$\mathbb{Z}^*(3)$, $\mathbb{Z}^*(4)$, $\mathbb{Z}^*(5)$, $\mathbb{Z}^*(6)$, and $\mathbb{Z}^*(9)$ are all cyclic, generated by 2, 3, 2, 5, and 2, respectively. $\mathbb{Z}^*(8)$ is not cyclic: every element is its own inverse so there is no element of order greater than 2.