Def $D_n = \langle a, b \mid a^2 = b^n = (ab)^2 = 1 \rangle$

whose order is $2n$ $(n \geq 2)$

From a geometric point of view
$D_n$ is the symmetric group of n-regular-polygon $\pi_n$

where a denote the symmetry of an axis
b denote rotate $\frac{2\pi d}{n}$ rad ( $\gcd(d, n) = 1$ )