

Look at the case of  $S_d(\text{Cube})$  for which  $|G| = 24$ .

Poles are:	Rotation by:	Orbit	Geometric feature	$ G $
Red orbit	$\pm\pi/2, \pi$	6	face centres	9
Green orbit	$\pm 2\pi/3$	8	corners	8
blue orbit	$\pi$	12	edge centres	6

