B

l   n

A   C

m

NOTE: *reflection lines DO NOT rotate* with *the triangle*

Image after ....

Rotations (CCW)

$R_{0°}$ l   n

m

$R_{120°}$ l   n

m

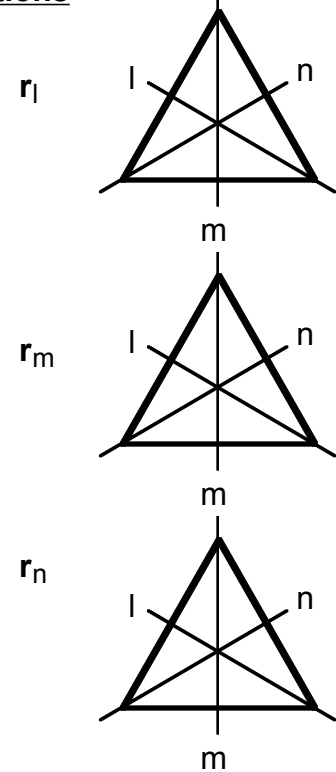$R_{240°}$ l   n

m

Directions:
1. Label the images
2. Complete the table (MAKE AND USE A CUT-OUT)
3. Verify group properties. Are there inverses? Is this abelian?
4. Identify all subgroups (there are four).
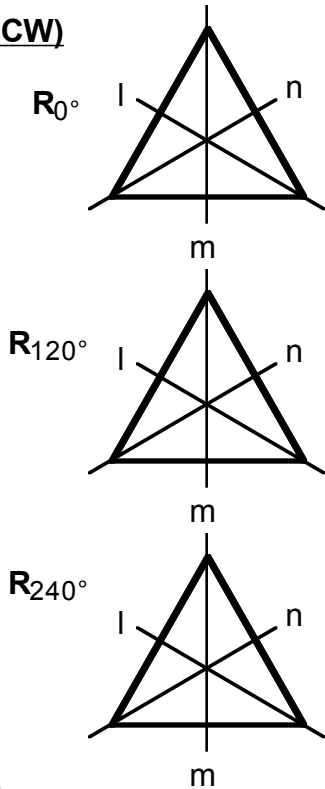
second transformation

Reflections

r_l l   n

m

*	$R_{0°}$	$R_{120°}$	$R_{240°}$	r_l	r_m	r_n
$R_{0°}$						
$R_{120°}$						
$R_{240°}$						
r_l						
r_m						
r_n						

first transformation

r_m l   n

m

r_n l   n

m