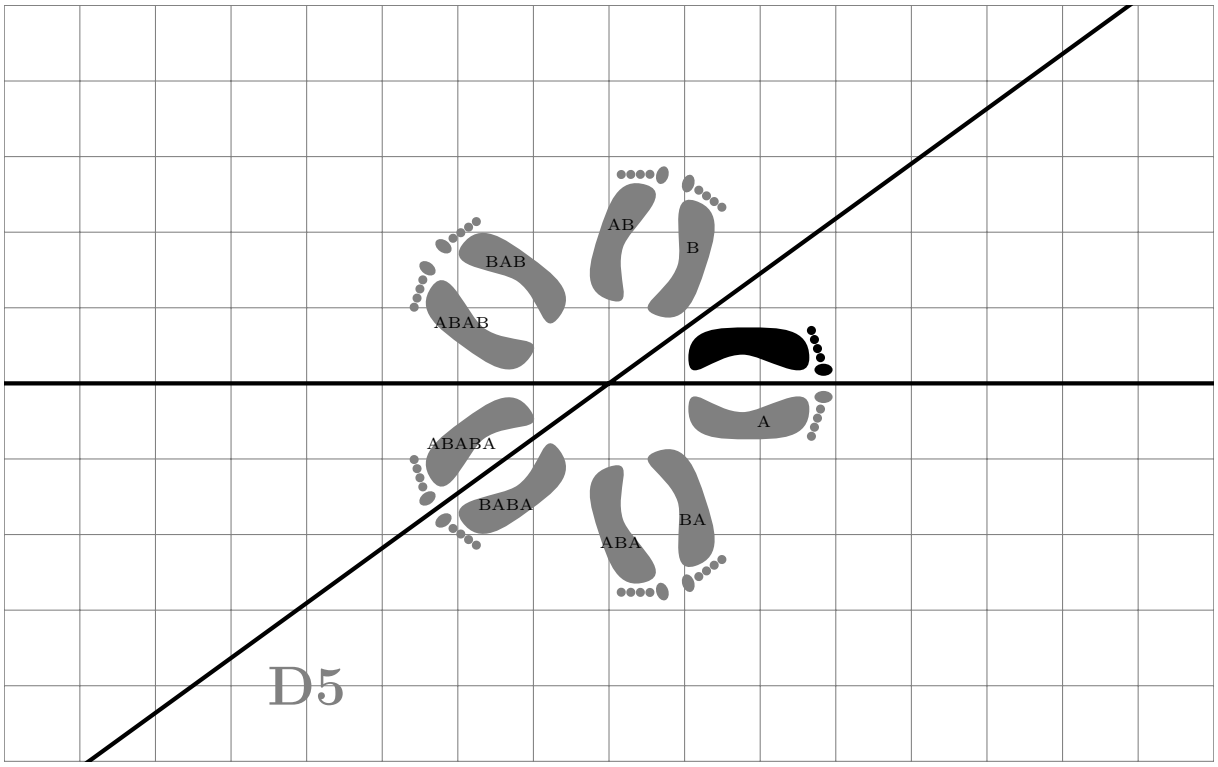
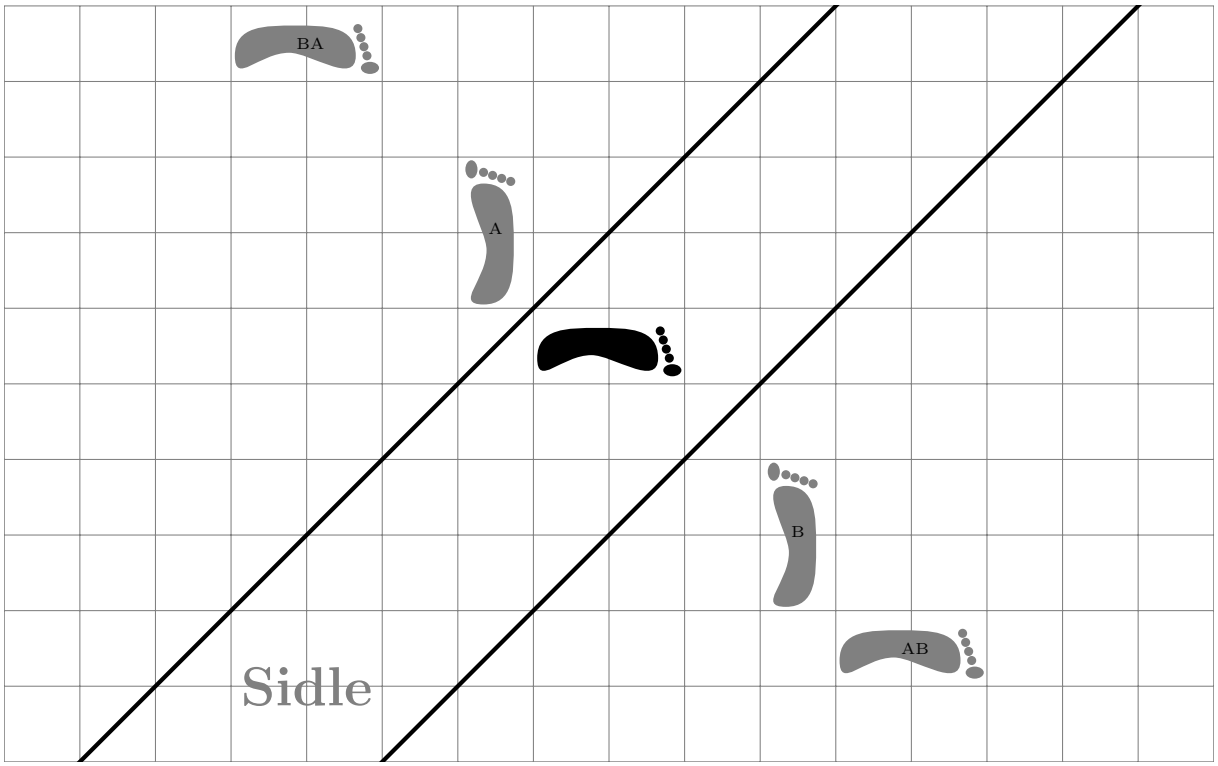
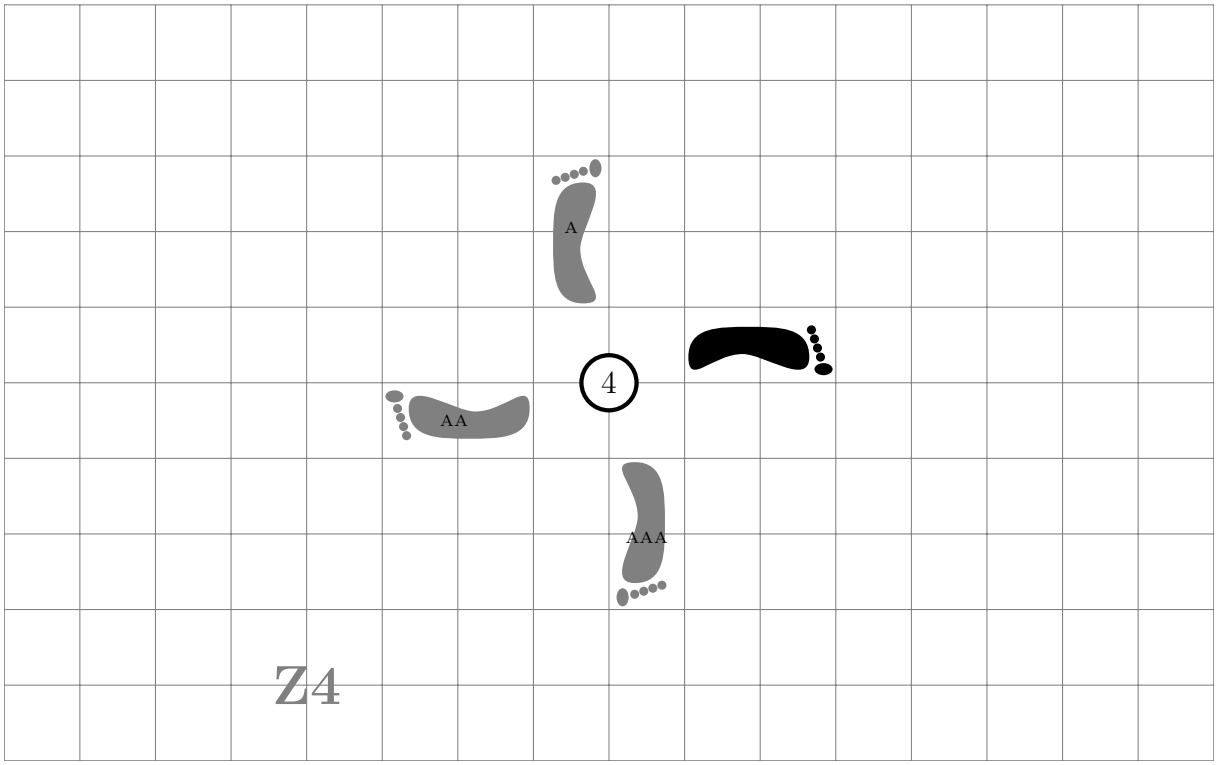
Reflections

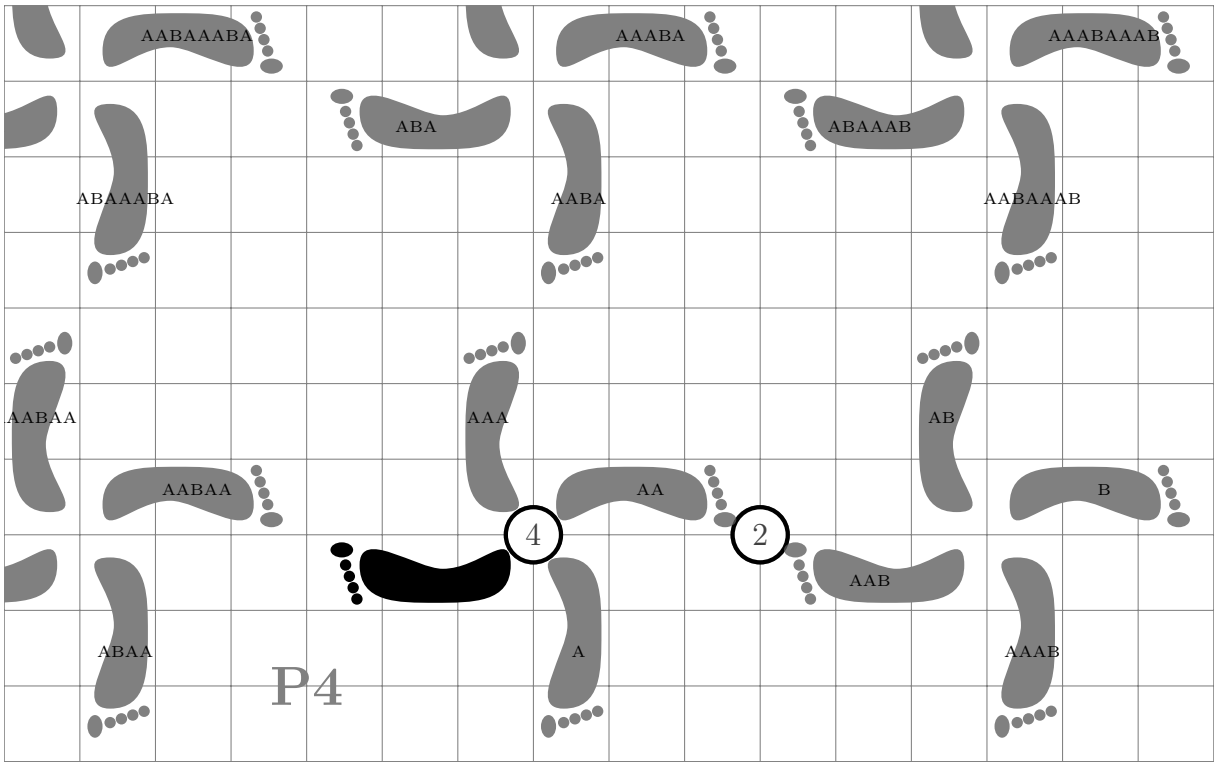
Reflect the motif (that's South Martian for "Foot") along the dark lines until you don't get any new motifs. Label the picture with its symmetry group.





Rotate Rotate the motif (that's South Martian for "Foot") around the roto-centers until you don't get any new motifs. Label the picture with its symmetry group (the bottom one is in the book, but we didn't talk about it; real exam will have a normal group).

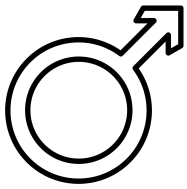




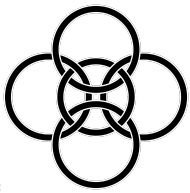
Identify symmetry groups

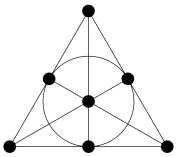
Label each picture with its symmetry group. (Real exam will have 8 or 9.)

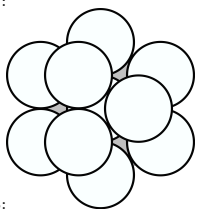
D1: 

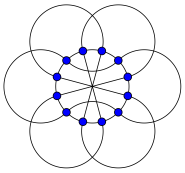
D1: 

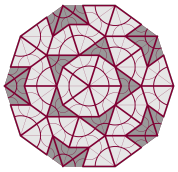
D1: 

D2: 

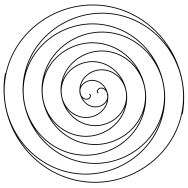
D3: 

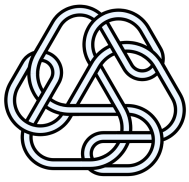
D3: 

D2: 

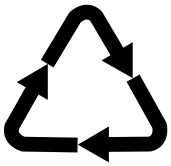
D5: 

Z1: 

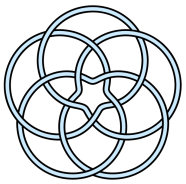
Z2: 

Z3: 

Z3: 

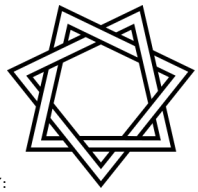
Z3: 

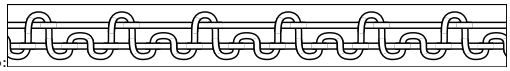
Z3: 

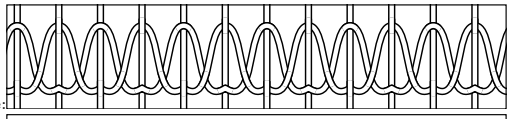
Z5: 

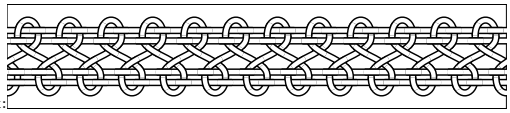
Z5: 

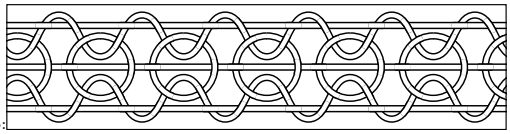
Z5: 

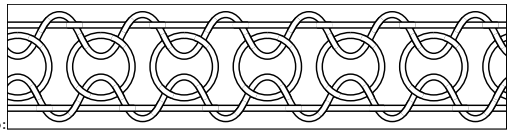
Z7: 

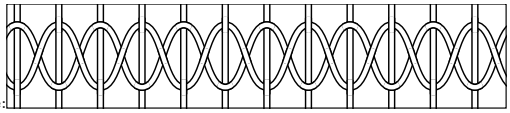
Hop: 

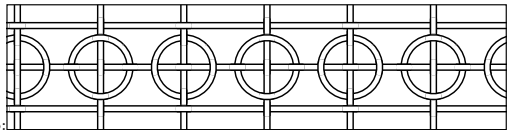
Sidle: 

Walk: 

Jump: 

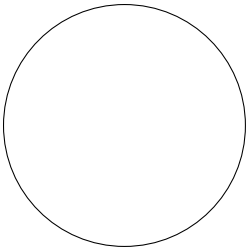
SpinHop: 

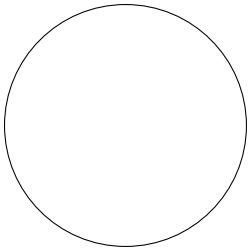
SpinSidle: 

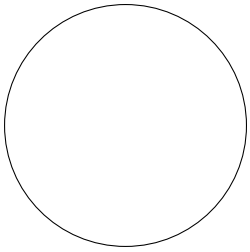
SpinJump: 

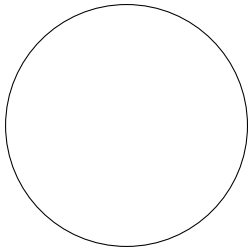
Draw symmetric pictures

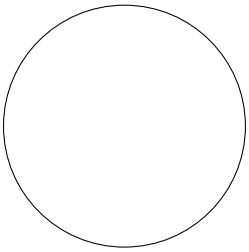
Draw a picture with each of the following symmetry groups. (Real exam will have around 8 or 9)

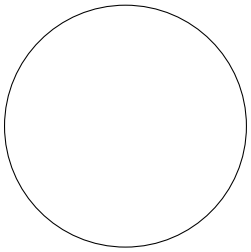

Z1

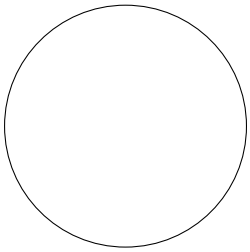

Z2

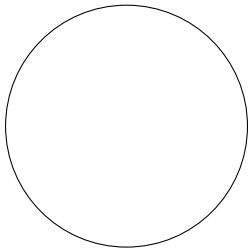

Z3

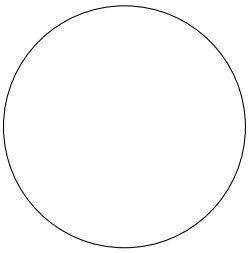

Z4

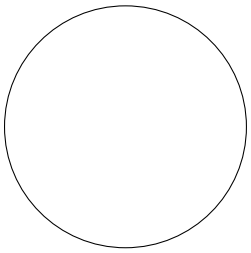

D1

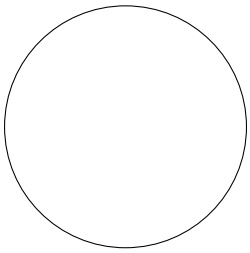

D2

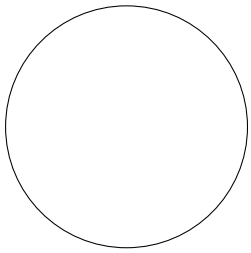

D3

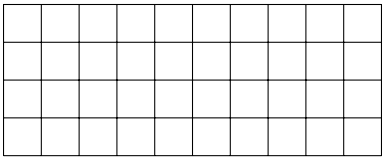

D4

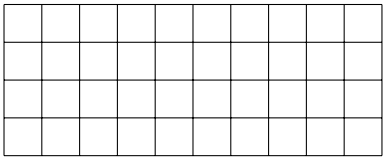

Z5

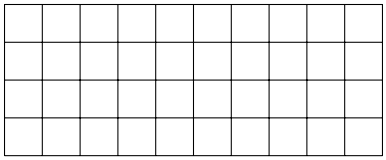

D5

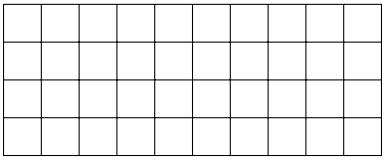

Z6

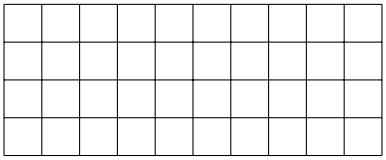

D6

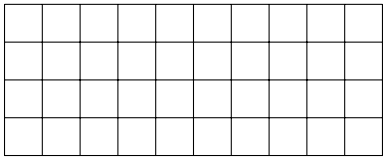

Hop

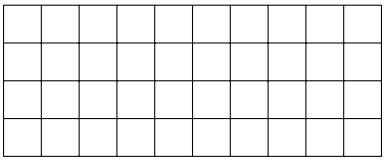

Sidle


Walk


Jump


SpinHop


SpinSidle


SpinJump