Corners Only



Aa, probability=1/18

l' (U R') D2 (R U' R') D2 R2 (**x'**) (R' D R') U2 (R D' R') U2 R2



 \mathbf{E} , probability=1/36

(x') [(RU'R') **D** (RUR') **D**'] [(RUR') **D** (RU'R') **D**']



Ab, probability=1/18
1 (U' R) D2 (R' U R) D2 R2
(y2) (x') (L D' L) U2 (L' D L) U2 L2





 $Ua,\,{\rm probability}{=}1/18$

M2 **U'** (M U2 M') **U'** M2 F2 **U** (M' U2 M) **U** F2



H, probability=1/72

(M2 U M2) **U2** (M2 U M2)



 \mathbf{Ub} , probability=1/18

M2 **U** (M U2 M') **U** M2 F2 **U'** (M' U2 M) **U'** F2



 \mathbf{Z} , probability=1/36

M2 U M2 U (**M' U2**) (M2 U2) M' U2 (**y'**) M' U (M2 U M2 U) M' U2 M2 U'

Adjacent Corner Swap



Ja, probability=1/18

(R' U L') **U2** (R U' R') **U2** (L R) U' (y) (x) R2 F R F' R U2 r' U r U2



T, probability=1/18

R U R' U' R' F R2 U' R' U' R U R' F' R2 U R2 U' R2 U' R2 U R2 D'



 ${
m Ra}$, probability=1/18

(R U' R' U') (R U R D) (R' U' R D') R' U2 R'



 \mathbf{Jb} , probability=1/18

(R U R' F') [R U R' U' R' F R2 U' R' U']



 \mathbf{F} , probability=1/18

(R'U'F') [R U R' U' R' F R2 U' R' U' R U R' U] R



 \mathbf{Rb} , probability=1/18

R2 **F** R (U R U' R') **F'** R U2 R' U2 R U (**y**') R' U2 R U2 R' F (R U R' U') R' F' R2' U'

Diagonal Corner Swap



 \mathbf{Y} , probability=1/18

F [(R U' R' U') (R U R' F') (R U R' U') R' F R] **F'**



m V, probability=m 1/18

(R' U R' U') (y) R' F' R2 U' R' U R' F R F



Na, probability=1/72

[r' D r U2]x5

(L D L' F') TPerm without F (L D' L')



Nb, probability=1/72

R' (U R 'U' R') (F' U' F) (R U R' F) R' F' R U' R

G Permutations



Ga, probability=1/18

D' R2 (U R' U R') **U'** R U' R2 (U' D) **R'** U R (**y**') (RU R'U' R') UF (RU R U' R') F' U R' U2 R



 \mathbf{Gc} , probability=1/18

D R2 U' R U' (R U R' U) R2 (U D') **R** U' R' (**y**) F2' D' L U' L U L' D F2 R U' R'



 \mathbf{Gb} , probability=1/18

D R' U R (U D') **R2** U (R' U R U') R U' R2 R' U' R (**y**) R2 u (R' U R U' R) u' R2



Gd, probability=1/18

D' R U R' (U' D) **R2** U' R U' (R' U R' U) R2 L U2 L' U F' (L' U' L U L) F U (L' U' L' U L)

