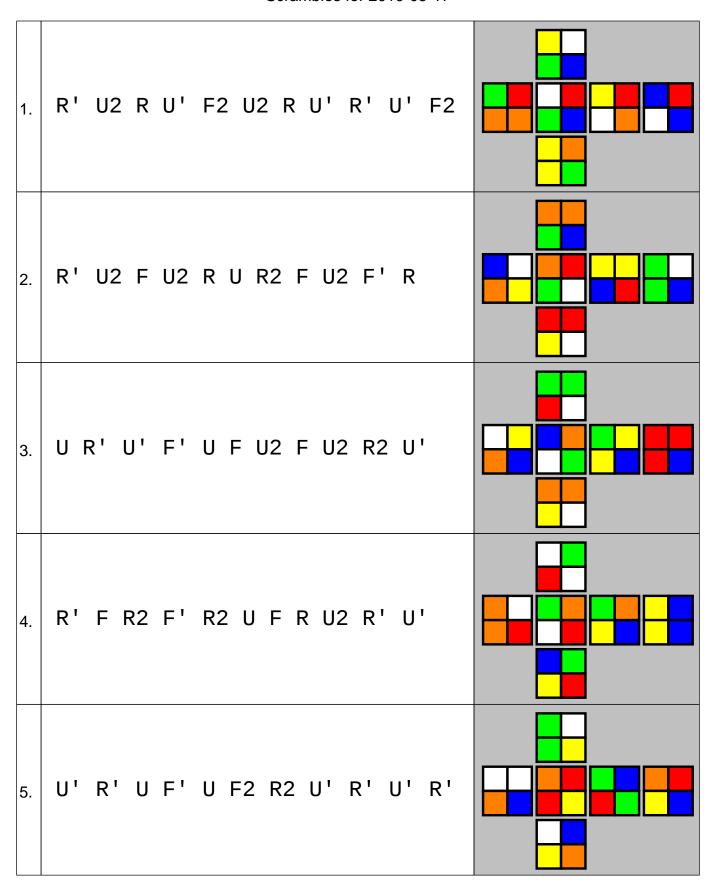
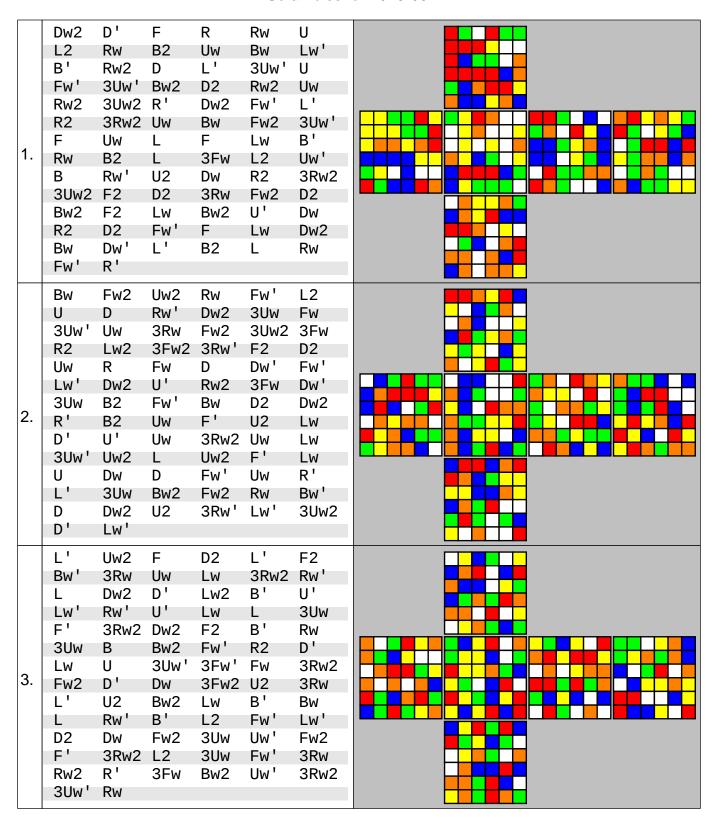
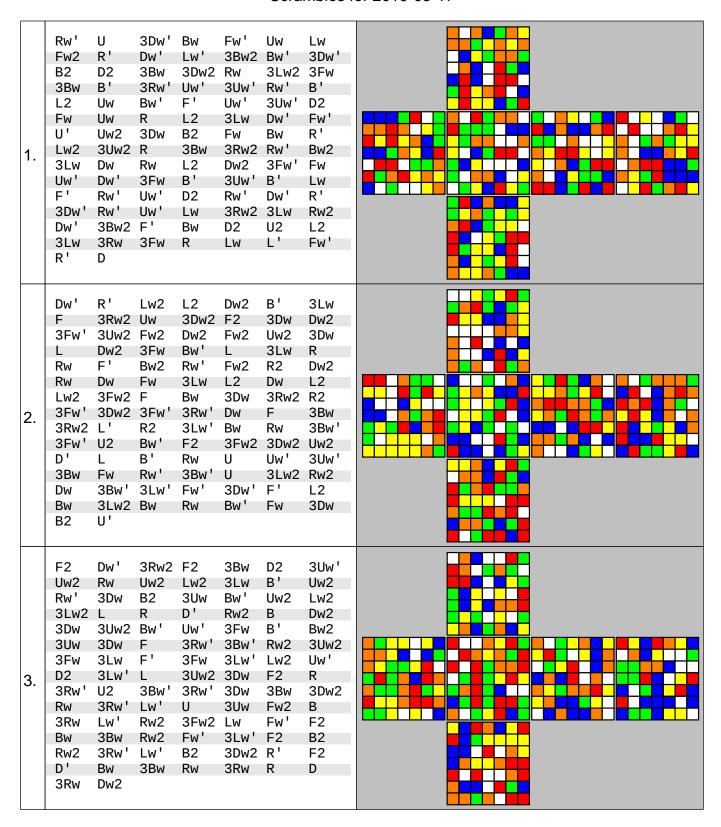
1.	F F' U2		L	F2 B2	U2 R				
2.	D2	U' B' L'	U2	D' D2	L B2	U' R		U2 L2	
3.	D' U2 D	B2 B' U	U' R R2	В'	U U'	B2 F	U2 D	B2 L'	
4.		F2	U	B2 L D2	F'				
5.	R'		D2	F F2					



1.	D2 B2 F' Rw2 Fw2 Fw	L' L L Fw2 U Uw'	B2 F F' U' FW RW'	D2 D D' F2 B' FW	R' R L' D L' F'	L2 B' Fw2 U R Rw'	D2 R2 L Fw2 Fw B2	L' U2 F2 L' Rw2	
2.	R D2 F2 D' B' Uw	B F L L2 L2 Rw	R L2 F2 B RW U	U U2 D2 Rw2 F B'	B2 R F2 Uw2 Rw L'	L D2 Rw2 F B' Fw	R B2 F' Rw2 D D2	U L2 U' D U	
3.	F R2 F2 Uw2 D2 U2	U' U R' L' R2 Fw	D' B2 D2 F2 Uw' Rw'	F' D2 L R' L2 R'	L B2 D2 D' U'	F' B2 Fw2 B2 Rw2 L	D R Rw2 Uw2 Uw	B2 D2 L B	
4.	R R' R' Uw2 Uw Rw'	F' U F2 R Fw2 Fw	L L D2 F' U Uw2	B' D2 L2 L' R U2	U2 R2 Uw2 U2 B2 R	Fw2	F2 D2 R D2 Fw2	D B2 B2 Fw2 Uw'	
5.	F F2 Uw2 Rw R2	B R U Rw2 U U2	U2 D2 F2 B' L Fw2	B' F2 R2 U Fw2 F'	R' L2 Fw2 R2 R	U' U D D' UW	B L2 B Rw2 L2	L' U2 F2 D Fw'	

	Bw'	Uw2	U2	Rw'	Uw	В'	F'	L2	Fw	
	U	Rw2	F'	Fw	D2	Dw2	R	D	Bw'	
	Dw'	Lw'	F2	U2	Bw'	R'	D'	Bw'	L'	
1.	Rw'	Lw2	Bw2	Rw	Bw2	L'	R'	Dw'	R	
1	Rw2	Lw'	U2	B2	F'	Bw'	R'	Lw	F	
	Rw'	Uw'	U'	Lw2	Fw'	Bw'	Uw'	D'	Bw2	
	Fw2	U2	F2	R	Fw2	L'				
	R'	Uw2	D'	L2	R	F2	Lw2	L'	Rw2	
	Uw'	В'	L2	Fw	F	Bw	L2	Lw	R'	
	F	В	Lw	R2	F	D	Lw'	В	Uw'	
2.	Dw2	Fw	Bw'	Uw'	Fw'	Dw'	L2	Rw	B2	
	U	R2	L	Rw'	Lw'	U'	L2	R	Lw2	
	F2	U	В'	Uw	F'	Lw	Bw	F'	Rw2	
	Dw2	U2	F'	U	D2	В				
	L'	F'	U'	Rw	Dw2	U'	B2	F	Rw	
	Bw2	L'	F'	Uw2	Fw	F'	Rw'	F'	L	
	Lw2	Uw	L	Rw'	Lw2	В	Fw2	Uw'	Dw'	
3.	L2	Lw2	F	L'	В'	L2	Uw2	U2	Dw2	
	D	B2	R	F2	Uw	Lw'	F2	Rw'	Uw2	
	Bw	U2	Lw'	Fw'	Rw	Uw2	Dw2	Lw2	Bw2	
	R2	Rw	Fw	Rw'	Uw2	U				
		D	D: .0	D0			D I		D0	
	U'	DW	Bw2		R	U'	Dw'	LW	D2	
	U'	Bw2	U'	Lw'	Uw	D	LW	U'	BW	
	R'	Lw2	DW	R	L2	U	FW	D2	F'	
4.	D'	F2	Fw2	LW		Fw2		Dw'	F2	
	FW	Bw	DW	Uw2	Bw2		U	RW	LW	
	Dw' L'	RW	R'	U'	B'	L2 Lw'	Lw2	UΖ	FW	
	L	Rw'	Bw2	D	Uw'	LW				——
	Bw'	Fw'	Lw	Bw'	R	Uw2	L2	Dw	Lw	
	Bw	R	F2	U2	Dw'	R'	U'	F'	Rw	
	В	U'	D	Ūw'	Dw2	L	R	D'	R'	
5.	U2	Rw	Uw'	Dw2	Lw'	F	Dw2	F2	R'	
.	D2	Uw	U2	Rw	L	Fw	R'	Rw'	Uw	
	U2	Lw2	Rw2	В'	Fw	F2	Dw2		R2	
	U2	Uw'	F	D	R	U2				

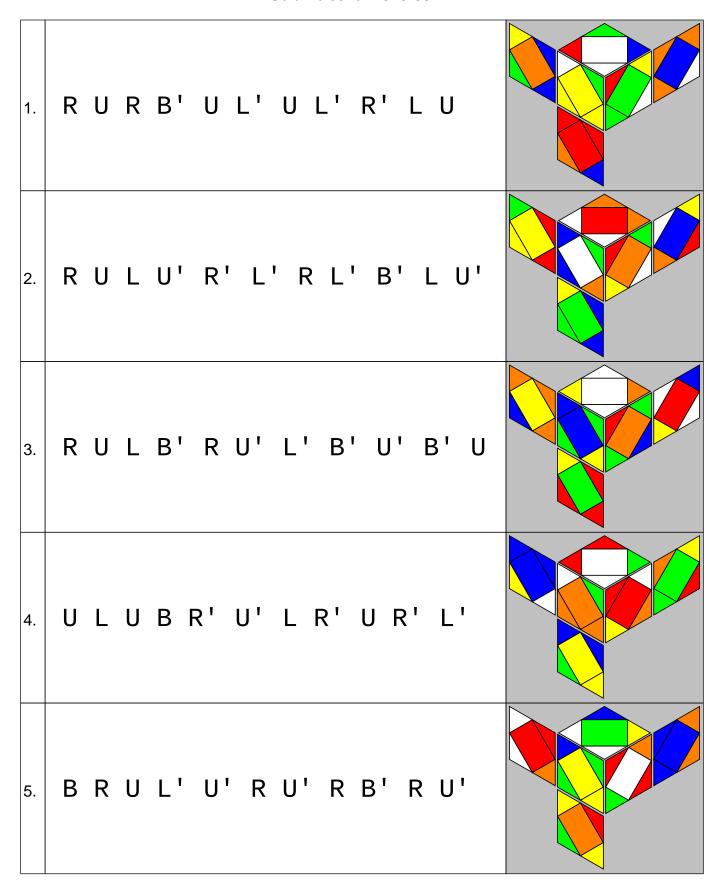




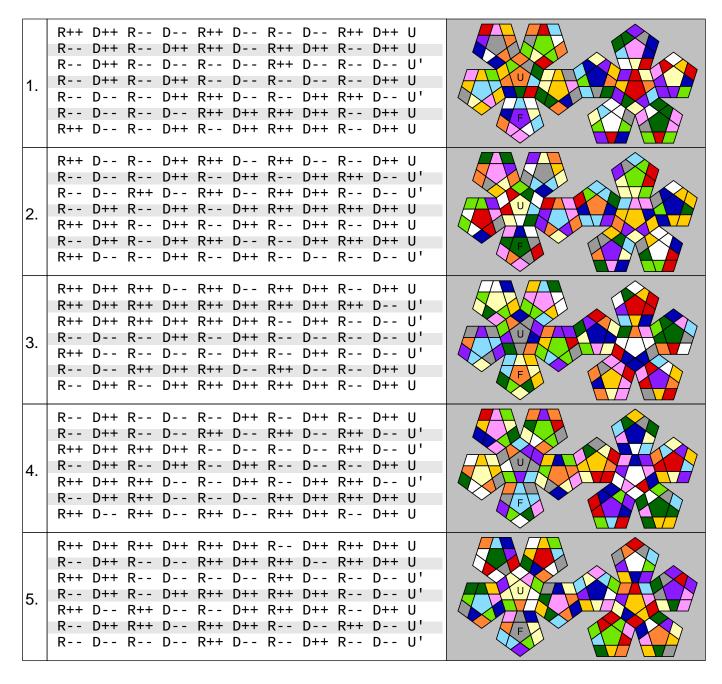
1.	U2 R' F2 U2 R U2 L' B2 L' D2 L2 B B L R2 Uw		
2.	L2 D R2 U' F2 R2 D2 U' R U R' B D U2 L' Uw	B L'	
3.	D2 L U2 B2 R' D'	B2 L' B' D' R	

1.	U B2 B	L2 U' D	B2 B' R2	U'	D L	R2 U'	U L	R2 R'	
2.	B' D D'	R2 F' R'	U2 D' D'	L2 L'					
3.	D2 R' D	U2 B B'	B R F2				F2 R		
4.	F2 B' D'		L2 D' D'						
5.	R2	B2 U' F'	U2 B D	L2 U2				U2 B'	

1.	U L U' R B U R' U R U' B' u' 1 b	
2.	R L' B' U' R' L' B R U' B' L' l' r b	
3.	U' R B L' R B' L' U L B U u l r b	
4.	RU'RLBL'U'R'U'RUur'b	
5.	R U' R' B' R B' L' R' L R U u' l' r' b	



1.	(0,2) (-2,-5) (5,0) (0,-4)	/	(3,0) (0,-3)	/	(3,3) (-3,-3) (-2,-1)	/	
2.	(-3,0)	/	(-1,2) (-4,-1) (-1,-4) (0,-1)	/	(4, -3) (0, -4)		
3.	(0,-1) (0,-3) (1,-3) (4,0) (5,0)	/	(-5, -2) (5, -4) (-3, -3) (0, -2)	/	(-3,0) (1,-2)		
4.	(0, -3) (-1,0)	/	(-2,4) (-5,-2) (-3,-3) (2,-2)	/	(3,0)	/	
5.	(-3,0) (0,-5)	/	(1,4) (6,-3) (3,0) (2,0)	/	(-4,-1) (3,0) (3,0) (-4,0)	/	



	LID1	DDE	DL3-	
	UR1- UL2+	DR5- U4+	R6+	
	D1+	L3+	ALL5-	
1.	y2	U4-	R5+	
	D3-	L2-	ALL1-	
	DR	DL	UL	
	UR3-	DR4+	DL3+	
	UL4-	U2-	R1-	
	D4-	L0+	ALL2+	
2.	y2	U6+	R6+	
	Ď6+	L5-	ALL5+	
	UR	DR	DL	
	UR4+	DR3-	DL1+	
	UL5+	U3+	R0+	
	D3-	L6+	ALL4+	
3.	y2	U2-	R5+	
	D5+	L1+	ALL6+	
	UR	DR		
	UR3-	DR1+	DL4-	
	UL2+	U6+	R3+	
4.	D3+	L4-	ALL1+	
-	y2	U3+	R3+	
	D5+	L1+	ALL0+	
	DR	UL		
	UR0+	DR3-	DL5+	
	UL4-	U1-	R4-	
5.	D4 -	L2+	ALL3-	
	y2	U6+	R2-	
	D4-	L1-	ALL1+	
	UL			

Fewest Moves

- You have 60 minutes to find and write a solution.
- Write 1 move per bar. To delete a move, clearly blacken it.
- Your solution must not be directly derived from any part of the scrambling algorithm.
- Your solution must be at most 80 moves, including rotations.
- Your result will be counted in OBTM.
- Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves	_			
		В Л	•	
	F4(P	IVI	() \	ハート

Clockwise	F	R	U	В	L	D	
Counter-clockwise	F'	R'	U'	В'	L'	D'	
Double	F2	R2	U2	B2	L2	D2	
Rotations							
Clockwise	[f]	[r]	[u]	[b]	[1]	[d]	
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']	
Double	[f2]	[r2]	[u2]	[b2]	[12]	[d2]	

Scrambles for 2019-05-17 3x3x3: Fewest Moves Round 1 Scramble 1 of 2

Competitor:	
WCA ID:	
DO NOT FILL IF YOU A	ARE THE COMPETITOR.
Graded by:	Result:

Scramble: R' U' F D L2 R2 F2 D' L2 F2 L2 D L' B2 R U' R U' B' D2 B' L' B' R' U' F

Fewest Moves

- You have 60 minutes to find and write a solution.
- Write 1 move per bar. To delete a move, clearly blacken it.
- Your solution must not be directly derived from any part of the scrambling algorithm.
- Your solution must be at most 80 moves, including rotations.
- Your result will be counted in OBTM.
- Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face		

Clockwise F U В L D Counter-clockwise F' U' B' L' D' Double F2 R2 U2 B2 L2 D2 **Rotations** Clockwise [f] [1] [d] [r] [u] [b] Counter-clockwise [f'] [r'] [u'] [b'] [l'] [d'] Double [f2] [r2] [u2] [b2] [l2] [d2]

Scrambles for 2019-05-17 3x3x3: Fewest Moves Round 1 Scramble 2 of 2

Competitor:						
WCA ID:						
DO NOT FILL IF YOU ARE THE COMPETITOR.						
Graded b	y:	Resu	lt:			

Scramble: R' U' F R2 D L2 B2 F2 D2 F2 D U2 L D2 L B D' L' B2 F' R B U' F' R' U' F

1.	R	F	R' U2 U2	В'	L' R2			
2.			R2 F D'		U'			
3.		L2	R2 B U	F2 L F	D2	F2 B2		
4.	D2 F R		F2 L'					
5.	F B L		D2 D' D2	B2 B R2		F' F'		

