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

1.	R' F2 U' F U' R U' R U2 R2 U'	
2.	R' F' R2 F R U2 R' U' F R2 U2	
3.	U2 R' F2 U' F R2 U' R2 U R2 U2	
4.	R' F U2 R U R2 U2 R2 F U' R2	
5.	R' F' U R2 U' F' R' U2 R F' R'	

444 Scrambles for 2019-06-05

	R2	L'	Rw	D	U2	Fw	U2	
	NZ I	D'	Uw2	R2	Uw2	U'	D'	
	R'	L'	Rw'	Fw2	Uw'	D2	F2	
1.	Rw'	L'	B2	L	FW	U2	F2	
	D2	∟ Rw'	L'	FW	F	Rw'	D'	
	F2	Fw'	L Rw2	R2	U	ΓW	U	
						_	_	
	Uw'	FW	D'	R2	Fw .	R	L	
	U'	B2	FW	UW	Fw'	F2	RW	
2.	Fw'	D2	L2	Rw'	D2	Fw'	R2	
	D2	U'	L2	U2	L' .	Rw'	Fw2	
	L2	Fw	U2	D'	Uw'	F'	D	
	R2	F'	Rw	F	U2			
	L2	Rw	F'	В	Rw2	F	L2	
	F'	Fw'	D'	R2	Fw	Rw	R	
	Uw'	В	R	B2	R2	В	U	
3.	D'	Fw	L	Uw	F'	Rw2	L	
	Fw'	F2	В'	D	U'	B2	U	
	D'	Uw'	Rw2	R2	D			
	Uw2	L	U2	Fw	Rw	Uw'	Fw2	
	D2	L2	FW	R2	L	D	Uw'	
	U	F'	Rw	R'	F'	Fw	Rw'	
4.	U'	F	Fw2	D	R'	Uw2	В'	
	Uw'	D2	B2	Rw	U	R2	F'	
	L'	Uw'	F2	R2	Uw			
	R2	В	U'	R	D2	U2	R'	
	L2	Rw2	Uw2	L	D2	R	L2	
	В	L'	Fw'	R	Rw'	D'	B2	
5.	F2	D'	L2	U	R	Rw2	B2	
	D	L2	Fw	В'	Rw2		Fw	
	F2	R		Rw	В'			

	D'	Fw'	Rw2	Uw	Bw	Lw	Rw'	Dw	В'	
	Dw'	D	Rw'	Lw'	R'	L2	В'	Bw	U	
	Fw'	F	L2	В	Rw	L'	D'	Fw'	Dw	
1.	F2	Uw2	U	Bw	В'	D	L'	Dw2	Rw2	
	F'	Uw	R	D2	Rw	U	Lw'	Dw	Rw2	
	Dw	Uw	D	R2	Rw2	Dw'	F'	Bw2		
	Rw'	Ĺ'	F'	В						
	U'	Uw'	Bw2	Dw	Uw	Fw2	R'	L2	Lw2	
	Fw	R2	U	В				Dw'		
	F2	Lw2	L	Dw				R	Uw'	
2.	F'	Rw	Dw	L'						
	R'	Rw'	Bw'	Ūw						
	D2	L	Fw2	Dw						
	F	U	D2	F			•		_	
	•			•						
	Uw'	Bw	Fw2	R2	Bw'	B2	Lw2	R2	В'	
	Dw	L2	R'	Lw	Uw2	Bw	R	L'	Uw	
	Lw	Fw2	U2	Lw2		Fw'	R	U'	F'	
3.	Bw2	B2	Fw'	Lw	_	L'	R			
0.	В'	D'	F	L2			U'			
	Lw	Rw2	Uw2	R'		Fw	Uw'			
	Lw2	R	Fw	Uw'	R'	В				
	Rw	D2	Dw2	Bw'	Uw'	L'	В	D'	Rw'	
	Fw	Uw	D2	Dw2	B					
	Bw2	U	Lw2	R'	Dw2	Uw2	R	Fw2	Dw2	
4.	Lw	D2	Lw2	D'	Dw	R'	L	Rw	F	
	Bw2	L	Uw	В	Dw	F2	Fw2	L2	Uw2	
	U'	L2	U	L	B2	R	U'	Dw'	L'	-
	Rw2	Fw'	Bw2	Uw	Lw'	D				
	Lw'	Uw	Fw	Rw2	F2	Dw'	В'	Fw2	Rw2	-
	Bw'	Uw2	B2	U						
	R2	D'	U'	Uw2						
5.	R	Uw2	Bw'	D'						
J.	U'	B2	F	Fw						
	B2	D2	L	DW						
	R	RW	Bw'	Dw2			UVVZ	•		
	11	1 / / /	۷۷۷	D VV Z	114	- VV				

666 Scrambles for 2019-06-05

1.	LW 3UW' FW DW D U2 3UW2 R UW2 FW' B2 3RW 3UW2 B	3FW' RW F FW BW2 RW2 LW FW' RW2 F2 F' FW2 3FW2 U' UW'	3Uw2 3Fw Uw 3Uw' 3Rw F D' R' R2 D2 Bw2 Uw R'	RW'LWD'3RW'D'SFW2RW'3FW'BW'BW	F'L R'B2LW3UW'FW2FWBWBLW23UW2R2	Lw2 B F2 Uw2 Fw2 B Lw2 Lw2 B' Dw' F Lw' L2	
2.	DW2 3FW2 FW2 D U' B2 UW2 D' RW DW' FW2 DW RW'	D F2 Bw2 R' F2 FW FW' Bw' Bw' Bw2 3Uw' R' 3Rw	3FW BW' 3FW2 RW2 R' D' U U B F' F2 BW	L2 Uw' Dw2 D2 Dw2 R2 Uw2 F' U' R2 Bw' 3Uw'	U2 Lw' B2 3Fw2 3Uw' L Fw' D2 L' 3Fw' Lw' L2	UW F2 U' B RW2 3RW B R2 3RW2 DW' 3UW 3UW'	
3.	FW R L' DW2 LW' BW2 BW2 L BW' FW F 3RW	L' Bw' Dw Uw2 B Fw' Fw Fw2 Rw L B F' U' 3Uw'	Uw' 3Fw2 F2 R FW 3Uw2 3Uw2 B2 Bw' R2 FW RW 3Uw		Uw' 3Uw U2 B' D2 F' Dw2 3Fw' F 3Fw D 3Uw' B	F'Dw2FW'UWLw2RRw2DW'FW2B23RW23RW2UW2	

777 Scrambles for 2019-06-05

1.	3UW FW' D' 3RW RW' FW 3UW L F B LW UW' 3LW'	L2 3Lw2 Lw' 3Fw 3Bw' Rw Lw Uw' Rw L' Fw2 3Rw' B2	Rw' Uw R 3Uw' F U2 3Lw' Lw' F2 D2 Uw B2 Rw'	F2 B D R' R D' B Fw' Lw B' 3Fw Uw2 3Lw2		3Lw2 3Lw' 3Dw2 3Fw' 3Dw Uw2 Rw U2 3Fw' 3Bw Uw Uw2 Dw'	B Lw' 3Rw Rw2 B' Dw2 Fw' 3Dw' 3Rw' Bw2 Dw' D
	Uw' 3Lw' L' Uw2 R' 3Bw 3Bw' 3Fw	3RW' B2 FW' BW2 3LW2 3RW2 LW R	B2 Rw' 3Lw' Bw2 Uw2 Bw' F'	Uw2 3Lw2 3Fw2 Dw 3Dw2 3Fw Uw	LW U Dw2 R2 FW FW' D2	Uw2 Dw' R F2 R2 3Dw2 B	Dw' D D2 D Fw2 Lw Rw2
2.	3Rw2 Uw B2 3Lw2 D2 Rw' F 3Lw2 3Lw Uw' Lw2	R2 Dw2 Uw' Dw2 L' U B' Dw B2 D 3Dw'	Fw2 B 3Dw2 F2 Fw2 Bw' D Rw 3Lw Rw'	Dw2 F D2 3FW D' L2 Uw' 3LW Uw' 3LW2	L 3Uw 3Uw D2 Lw Dw2 Lw 3Fw D R2	Uw' Rw2 B 3Bw F B' R F' R Lw2	3Rw' 3Rw2 Rw 3Rw' R D 3Rw' Fw2 3Rw2 D2
3.	Dw' 3Rw' Rw' 3Bw' 3Dw 3Fw2 Rw' Dw2 3Rw Dw' Dw' U2 D2 3Lw' 3Fw'	F Uw' F 3Uw2 3Uw' U' F 3Bw' 3Uw'	F Lw' U2 Fw 3Rw' 3Rw	Lw2	3Uw' D U' 3Lw' BW L' 3Dw2 U 3Lw Rw' 3Rw' L' 3Lw 3Dw2	U' 3FW' D 3LW' R 3UW L2 FW2 U 3UW' B' L'	3Bw 3Rw F

333bf Scrambles for 2019-06-05

1.	F2 B2	R' R' F2 B' U	F2 B2 L2 L B			
2.	F2 B	D F L2 [₹' F			
3.	L2 F'	B2 [L' l) F	0' B2 F2 R R' F IW	' D	

333oh Scrambles for 2019-06-05

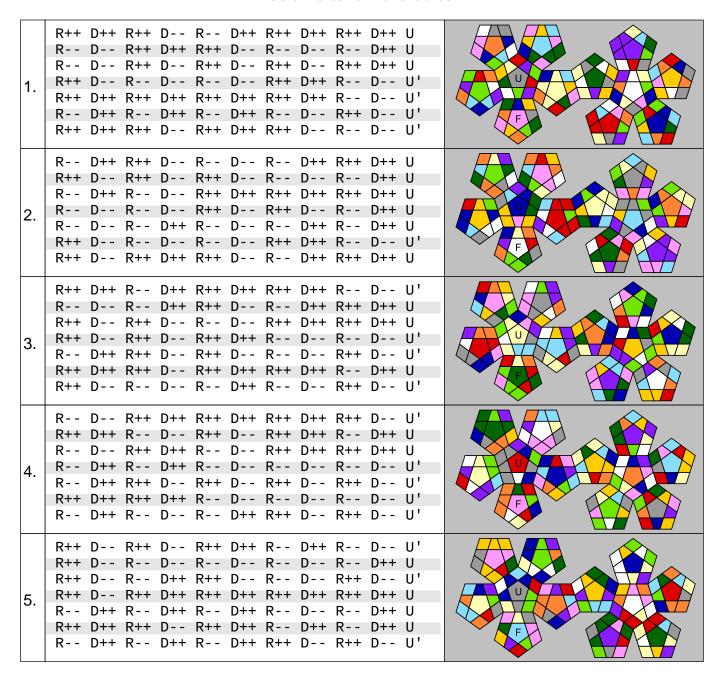
1.	B2 R' B'	F2 B R	D U' U'		U2 L2			B U	
2.	D B2 U2	F	L2 R R		U L	L2 D	B2 B	D L	
3.	B2 L2 B'		U2 R		F R2				
4.	U2	F'	B2 L' U2	U'					
5.	B2	D L' U2	U2		F2 D				

1.	LB'U'LR'BUL'RU'Bu'l'r'	
2.	RB'UL'UB'UBL'RL'u'b'	
3.	URU'BRU'BUL'B'Rr'	
4.	U' B U' B' U' R B' U B L' U' u l' r b	
5.	B' L' R B' R' U' R U B' U B' 1' r' b'	

1.	U L R U' R' U L R B' U' L'	
2.	R L R' U' B R L' B' U L' B'	
3.	LBRBRU'BLULB'	
4.	U L B L R B' R' B L U L	
5.	BUBUB' RUR' LB' L	

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

minx Scrambles for 2019-06-05



clock Scrambles for 2019-06-05

	UR1-	DR1-	DL5-		
	UL0+	U3+	R4-		
	D5+	L3+	ALL4+		
1.	y2	U4-	R2+		
	D0+	L0+	ALL3+	00000	
	UR	DR	UL		
	UR6+	DR2-	DL3-		
	UL1-	U1+	R4-		
	D5+	L1-	ALLO+		
2.	y2	U6+	R4+		
	y 2 D4 -	L3+	ALL1-		
	UR	DR	UL UL		
	UR1-	DR1+	DL4-		
	UL3+	U5+	R6+		2
3.	D2 -	L3-	ALL4+		
	y2	U4+	R4-		
	D5 -	L5-	ALL3+		
	UR	DL	UL		
	UR2+	DR3-	DL1-		
	UL5+	U3 <i>-</i>	R6+		\mathcal{X}
	D3-	L2+	ALL3-		
4.	у2	U1+	R2+		7
	D4-	L0+	ALL1+		
	DL				
	UR4+	DR3-	DL6+		
	UL0+	U5 <i>-</i>	R4-		
	D6+	L5+	ALL0+		
5.	y2	U3+	R2-)
	D4+	L6+	ALL5+	0000	
	DR	DL			

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:

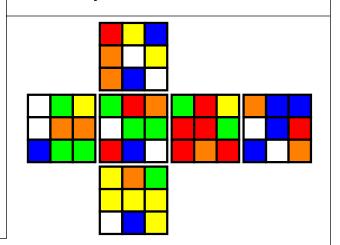
Face Moves

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

Scrambles for 2019-06-05 333fm

Competitor: _	
WCA ID:	
DO NOT FILL IF Y	OU ARE THE COMPETITOR.

Graded by: _____ Result: ____



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

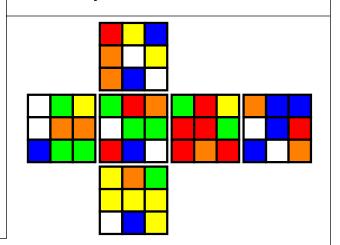
Face Moves

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

Scrambles for 2019-06-05 333fm

Competitor: _	
WCA ID:	
DO NOT FILL IF Y	OU ARE THE COMPETITOR.

Graded by: _____ Result: ____



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

333ft Scrambles for 2019-06-05

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

444bf Scrambles for 2019-06-05

	U2	B2	R'	U2	B2	
	D2	1	B2	L'	B	
	D2	R	D	B'	F2	
	D	В	R	F	Fw2	
	D	Fw2	Uw2	B2	Uw2	
1.	В	F'	L2	D	L2	
	F'	Rw'	B'	U2	Fw2	
	R'	U2	Rw2	Fw'	Rw'	
	Fw	B2	F2	Uw'	Fw	
	x2	y'	· -			
	U	F	R2	L'	D	
	В	R2	U2	L	D2	
	U2	F'	D2	В	L2	
	B2	R2	B'	U2	F'	
	Uw2	В	Uw2	R	Uw2	
2.	F	L	U2	Rw2	Fw2	
	L'	Fw2	F'	Uw	В	
	D2	L	Fw	Uw'	F	
	Uw2	Fw2	L2	Fw	X¹	
	y2					
	U2	L2	U'	L2	B2	
	U	B2	D	R2	U'	
	L	F2	D'	R'	D	
	L'	В'	F	R'	U	
	Rw2	В'	D2	Fw2	D2	
3.	U	F2	Uw2	B'	D'	
	В	L2	Rw'	D2	U	
	F'	L	Fw'	Rw2	R	
	Fw'	Uw	L'	D	L2	
	x2	у2				

555bf Scrambles for 2019-06-05

	Uw	Rw2	B2	Dw	D'	
	Uw'	F	Bw'	U	D	
	Rw	Lw	В	F'	Dw	
	U2	В	L2	F'	U2	
	L'	Rw	U2	Uw2	Dw	
	Ĺ	F'	L2	U2	FW	
1.	Ūw'	Rw2	F2	Rw2	D'	
'-	U'	Uw	R	B'	R	
	Lw'	B2	Bw	Fw2	U2	
	F2	Fw'	D'	R	FW	
	U	B'	Fw	Uw2	R'	
	Bw'	D	Lw2	L2	Dw'	
	3Fw'				DVV	
	O1 88					
	Dw2	R' U	! □ \ <i>\\</i> '	2 Lw	R	
		Uw2 F		Z LW UW'	Rw	
		B R			RW	
		F' B		DW	F'	
		L'R		L	Rw2	
_			w' Rw	R2	Bw'	
2.			w Rw w2 D	DW	В	
		U2 D		Dw2	Rw	
			w2 Bw		Lw2	
		Uw D			U'	
		3Uw		DW	U	_ _
	SINV	JOW				
	L	F2	D	Uw'	Lw'	
	F	υ'	R	F	Uw2	
	Fw'	U2	Lw2	Bw2	Dw2	
	Lw'	D2	Uw2	DW	B2	
	D'	Rw2	F	Bw	B2	
	D	Bw	Uw	F2	Uw'	
3.	D	Dw'	L2	R2	D	
J.	Uw'	L2	R'	B2	U2	
	F'	Rw'	D	L'	D2	
	R2	RW	Bw'	Ľ'	Rw'	
	Dw'	L2	R2	Rw'	U	
	Dw2	L'	RW	B'	U2	
	3Rw'	3Uw	1 7 0 4		32	
	JIVV	JUW				

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

333mbf Scrambles for 2019-06-05

6.	U2		R'	B2 B2 B2	L		R2 F' Uw'	
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