

xml nodes	duration	Values in xml file				
Note	type	current	expected	beats 1 & 2	beat3	beat4
rest	eight	202	24	24		
forward		2	0	0		
note1/15	32nd	51	6	6		
note2/15	32nd	51	6	6		
note 3/15	32nd	51	6	6		
note 4/15	32nd	51	6	6		
note 5/15	32nd	51	6	6		
note 6/15	32nd	51	6	6		
note 7/15	32nd	51	6	6		
note 8/15	32nd	51	6	6		
note 9/15	32nd	51	6	6		
note 10/15	32nd	51	6	6		
note 11/15	32nd	51	6	6		
note 12/15	32nd	51	6	6		
note 13/15	32nd	51	6	6		
note 14/15	32nd	51	6	6		
note 15/15	32nd	51	6	6		
backup		-9	0	0		
quarter	quarter	480	57		57	
triplet_1st note	quarter	320	38			38
triplet_2nd note	eight	160	19			19
		1920	228	114	57	57

current "divisions" value is 480 (1920/4)

While a simple calcul shows that the "divisions" value is 114 with no backward and forward values required

expected Algorithm

Let n1= 32nd note duration (tuplet 19/16)

Let n2 = smallest note duration in triplet

Let D = number of divisions to be calculated

score specifies that $19*n1 = 2*D$ and $3*n2 = D$

so, $19*n1$ shall be equal to $6*n2$

solutions are : N1 = 6 ;N2 = 19 and D = 57