

Chopi tribe /Southern Mozambique.  
Venancio Mbande's (Master Chopi Builder)

### Xylophone Tuning

Provided by  
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Note No.	Hertz	
1"	1004	
7'	924	
6'	843	
5'	756.2	
4'	691.1	
3'	616.2	
2'	562	
1'	508.7	
7	462	
6	418.6	
5	375.6	
4	341	
3	307	
2	278.7	
1	253.8	----- 'dikokoma da
7,	230	wumbila',
6,	207.5	(Chopi Keynote)
5,	188	
4,	170	
3,	153	

Note No.	Herz	
1"	1004	278.7+341=619.7 3.5 sharp
7'	924	307+375.6=682.6 8.5 flat not good at all
6'	843	341+418.6=759.6 3.4 sharp
5'	756.2	375.6+462=837.6 5.4 flat ?
4'	691.1	418.6+508.7=927.3 3.3 sharp
3'	616.2	462+562=1024 /2 512 3.3 sharp
2'	562	508.7+616.2=1124.9 /2=562.45 .45 sharp
1'	508.7	562+691.1=1253.1 /2=626.55 not good at all
7	462	616.2+756.2=1372.4 /2= 686.2 4.9 flat
6	418.6	not good at all
5	375.6	691.1+843= 1534.1 /2= 767.05 10.85 sharp not good at all
4	341	756.2+924=1680.4 /2= 840 3 flat
3	307	843+1004=1847 /2= 923.5
2	278.7	924
1	253.8	1004
7,	230	
6,	207.5	
5,	188	
4,	170	
3	153	

Now all the measurements that are bad involve 4' 691.1. Now if this pitch would have been originally been tuned to 682.6 as the pattern would imply and a sliver fell off or whatever caused it to raise in pitch we would have for the top of the instrument the following;

562+682.6=1244 /2=622 6.1 sharp??  
616.2+756.2= 1372.4 /2= 686.2 3.6 sharp  
682.6+843= 1525.6 /2=762.8 6.6 sharp  
???

Better but no cigar if the original pitch could have been even a little higher or halfway between the present pitch it would fit.

153+188=341!  
170+207.5=377.5 1.9 sharp  
188+230=418 .6 flat  
207.5+253.8=461.3 .7 flat  
230+278.7=508.7!  
253.8+307=560.8 1.2 sharp