

POLYRHYTHM CHART AND PROBLEMS

Fill in the chart below as you clap the rhythms in class.

	Beat																															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Rhythm																																
1:2																																
1:3																																
1:4																																
1:5																																
1:6																																
1:7																																

- Fill in Table 1 for the polyrhythms indicated.
- Explain in words how the phrase length for the polyrhythms in Table 1 can be determined without clapping or using the polyrhythm chart.

Table 1	
Polyrhythm	Phrase length
2:3	
3:4	
3:5	
2:3:5	

- Refer to the polyrhythm chart and fill in Table 2 for the polyrhythms indicated.
- Does the mathematical method for finding the phrase length in Table 1 work for the polyrhythms in Table 2? Use the polyrhythm chart to verify your answer, and explain.
- Compare the polyrhythms in Table 1 with those in Table 2. Look for patterns and explain how the polyrhythm numbers in Table 1 are different from those in Table 2.

Table 2	
Polyrhythm	Phrase length
2:4	
3:6	
2:6	
2:3:4	

- In general, what is a mathematical name that describes the relationship between the phrase lengths of individual rhythms and polyrhythms?
- Describe a way to find the phrase length for any polyrhythm.