

Difficulty: 2/4 **Interest:** 3/4

Consider all of the shapes that can be made with a rubber band and a rubber hand.

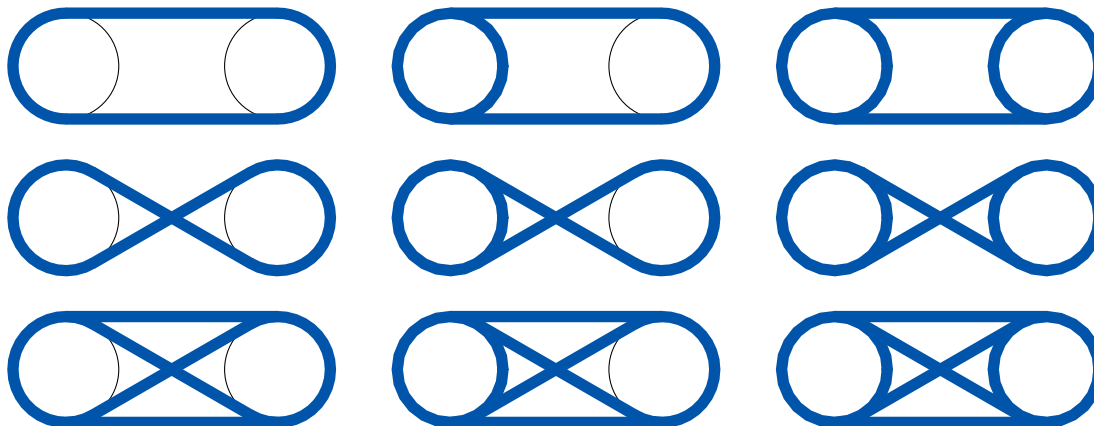


Figure 1: There are (at least) 9 ways to weave a rubber band between two fingers up to reflection/rotation.

Question. How many figures can be made with n fingers and a rubber band?

Related.

1. Is there an analog in higher dimensions?
2. What if all fingers must be aligned?
3. What if all fingers must be on the corners of an n -gon?