

Mobius Strip Worksheet

Name: _____

No of twists	Description	No of faces	No of edges
0		2	2
1		1	1
2		2	2
1 with cut at $\frac{1}{2}$	gives 1 strip with 2 twists	2	2
1 with cut at $\frac{1}{3}$	gives 2 linked strips.	1 2	1 2
1 with cut at $\frac{1}{4}$ gives 2 linked strips.	gives 2 linked strips.	1 2	1 2
2 twists with cut at $\frac{1}{2}$	2 linked strips. Both have 2 twists.		
2 twists with cut at $\frac{1}{3}$	2 linked strips. Both have 2 twists.		
2 twists with cut at $\frac{1}{4}$	2 linked strips. Both have 2 twists.		

- The width of the linked strips decreases as we cut at $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$ and so on. We always get 2 strips.
- If we connect two bands with 0 twists (two cylinders) at right angles to each other and cut at $\frac{1}{2}$, we get a square.
- If we connect two Mobius bands with 1 twist (the direction of the twist should be opposite for the two bands) at right angles to each other and cut at $\frac{1}{2}$, we get 2 interconnected heart shaped strips.