

Name: ANSWERS

A. What happened when you drew a line down the center of the Mobius band?

*Answers may vary. Possible answers are*

- *It kept going until I was on the other side*
- *It went on both sides*
- *I had to wrap around it twice to finish*
- *I was surprised!*

B. How many sides does your Mobius band have?

*ONE*

C. How many edges does the Mobius band have?

*ONE*

D. Predict what will happen when you cut the Mobius band in half down the center line (the line you already drew).

*Answers will vary widely.*

E. What happened when you cut the Mobius band in half down the center line?

*You end up with a single loop. It is twice as long as the original loop, but seems to be extra twisty.*

F. How many edges does the cut-in-half Mobius band have?

*TWO*

G. How many sides does the cut-in-half Mobius band have?

*TWO*

H. What happens when you cut the cut-in-half Mobius band in half?

*You have two interlocking loops. Each of these loops has 2 edges and 2 sides.*

I. What happens when you cut a Mobius band in thirds?

*You get two pieces. One is longer than the other, and they are tangled together.*

Use the back of this paper to write down results of experiments with bands made with 2, 3, or 4 twists. Compare with a classmate.