

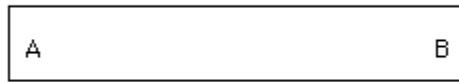
Intro to Abstract Math

Name: _____

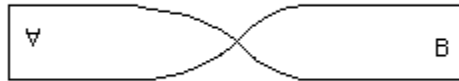
Möbius Strips - Conjectures

- Make a Möbius strip.

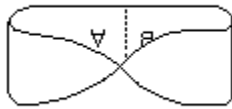
1. Take a strip of paper.



2. Give it a half twist (turn one end over).



3. Tape the ends together.

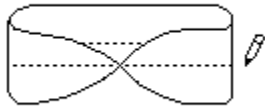


Make some conjectures, test them and write down your findings.

1. How many sides do you think the strip has?

Conjecture: _____

Test: Take a pencil and draw a line along the length. How many sides does the Möbius strip have?



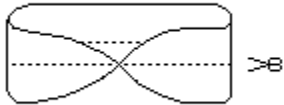
Conclusion: The strip has _____ sides.

Does the conclusion match your conjecture? Explain.

2. What do you think happens if we cut a Möbius strip in half?

Conjecture:

Test: Take a pair of scissors and cut the Möbius strip along the line you have drawn. What happened?



Conclusion: When you cut a Möbius strip in half then...

Does the conclusion match your conjecture?

3. What do you think will happen if you cut it down the middle again?

Conjecture:

Test :

Conclusion:

Does the conclusion match your conjecture?

4. Come up with, and test, at least three more conjectures and questions of your own.

Document your conjectures, tests and findings in detail.

a. Your Conjecture 1:

Test :

Conclusion:

Does the conclusion match your conjecture?

Your Conjecture 2:

Test :

Conclusion:

Does the conclusion match your conjecture?

b. Your Conjecture 3:

Test :

Conclusion:

Does the conclusion match your conjecture?

