

**Area and Perimeter: The Mysterious Connection
Student Worksheet**

In these problems you will be working on understanding the relationship between area and perimeter. Pay special attention to any patterns that arise in your exploration.

Part 1

The question we are trying to answer in this lesson is what connection if any exists between area and perimeter?

- I. Figure A and figure B below have different areas. Determine if the perimeters are the same or different.

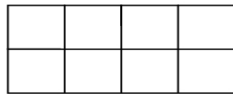


Figure A

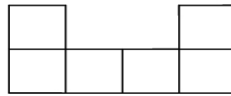


Figure B

Area of Figure A _____ square units Area of Figure B _____ square units

Perimeter of Figure A _____ units Perimeter of Figure B _____ units

Explain how you arrived at your conclusion. What was the process that you used to find the perimeters? Show an example of your process with labels included.