

Cutting Corners

Using the 4 by 6 notecard:

Record your name in upper left corner and label the 4 inch and 6 inch side.

Warm-up: What shape is this notecard? How do you know?

1. How many lines of symmetry does it have?
2. What is the length of one diagonal:
3. What is the area of the card:
4. What is the perimeter of the notecard:

Remove one rectangle from the upper right hand corner.

5. How does the new area compare to the original notecard area?
6. How does the new perimeter compare to the original notecard perimeter?

Extensions:

- a. Is this 3 by 5 notecard similar to your original 4 by 6 notecard? Why or why not?
- b. What if we started with a prism made of cubes and removed a corner?
- c. What if, on the card, we cut out rectangles from each corner?
- d. What if, on the card, we cut out equal squares from each corner?

