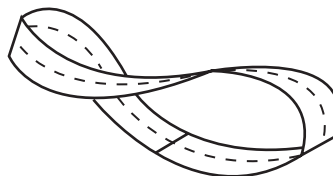


Practice 10-8

Make a Model

Solve by making a model.

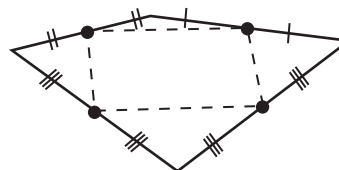
- A narrow strip of paper is twisted once, then joined at the ends with glue or tape. The strip is then cut lengthwise along the dotted line shown.



- Guess the results.

- Make and cut a model as directed. What are the results?

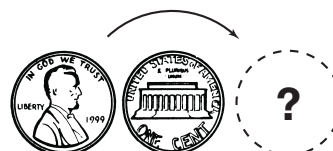
- The midpoint of a segment is the point that divides the segment into two segments of equal length. A quadrilateral with unequal sides is drawn. The midpoints of the four sides are found and connected in order.



- Guess what kind of quadrilateral is formed.

- Draw four quadrilaterals with unequal sides and connect the midpoints of adjacent sides. What kind of quadrilaterals appear to have been formed?

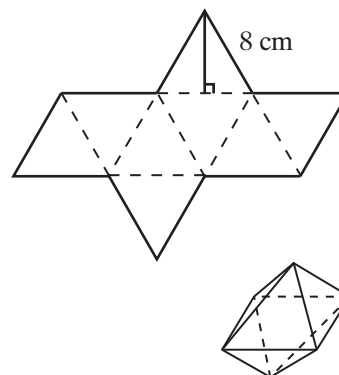
- A penny with Lincoln's head upright is rolled along the edge of another penny as shown in the figure.



- At the end, do you think Lincoln will be right-side-up or upside-down?

- Conduct an experiment to find out. What are your results?

- A net for an octahedron is shown. All the sides are congruent, equilateral triangles. Cut and fold on the dotted lines. Find the surface area of the octahedron. Round to the nearest square centimeter.



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