Warm-Up:

I am a four-sided shape with a perimeter of three meters. What might I look like?

(list the possible strategies)

- Draw a diagram
- Number sentence
- Solve a simpler problem
- Make a table
- Guess and check
- Make a model;

Must produce at least 4 different shapes. Only 75% of the shapes can be rectangles

Extension: Which one of your shapes has the biggest area?

Main Activity:

This is an open-ended task where the students are given a range of pictures of polygons in the form of everyday objects. They will then be able to cut them out and arrange them into a 2D creation/ picture of anything they like (eg robot, house etc.). They are then to calculate the area and perimeter of each object. For an extra challenge they can calculate the perimeter and area of the whole picture.

Reflection:

How can we use this in real life? What's useful about what we learned today?