The blob

Shapes in the planned and designed world tend to be rectangles, circles, triangles, trapeziums and so on. In the natural world, the shapes you see tend to be complicated, with folds and no straight lines.

You can find a good estimate of the area of an irregular (natural?) shape using two methods

- Copying the shape onto graph paper and counting the squares
- Slicing the shape up into strips, and making each strip into a trapezium

The second method means a lot less counting but some calculations.

Counting squares



Just copy the blob onto squared paper and count squares inside the shape. If you are clever, you can minimise the counting by using rectangles. On the edge of the blob, you have to decide if more than half the square is inside the shape (in which case you count the square). If you want an accurate result - just use smaller squares

Trapezium method



Slice the shape up into equal slices. Make each slice a trapezium and calculate the area of the trapezium. Your answer gets more accurate as you take thinner slices - but watch the measurement accuracy.

