



# Problem of the Week

## Problem B

### Tri-Rect-angulation

The area of a rectangle can be calculated using the formula

$$\text{area} = \text{length} \times \text{width}$$

The area of a right-angled triangle can be calculated using the formula

$$\text{area} = (\text{base} \times \text{height}) \div 2$$

- Determine a way to divide each polygon below into right-angled triangles and rectangles. (The sides of each triangle and rectangle must lie on grid lines or on a boundary line of the figure.)
- Compare your answers to part (a) with your classmates.
- Find the total area of each of the given polygons using your answers from part (a) and the formulas for the area of a rectangle and for the area of a right-angled triangle.

