Problem of the Week Problem B Tri-Rect-angulation

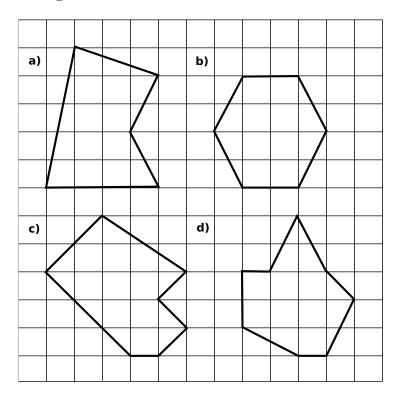
The area of a rectangle can be calculated using the formula

$$area = length \times width$$

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

$$area = (base \times height) \div 2$$

- a) 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.)
- b) Compare your answers to part (a) with your classmates.
- c) 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.



STRAND GEOMETRY AND SPATIAL SENSE

