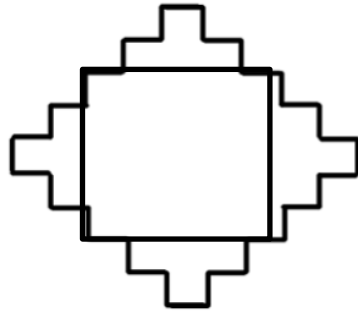


September 25th

In the polygon shown, each side is perpendicular to its adjacent sides and all 36 sides are congruent. The perimeter of the polygon is 72cm.

What is the area of the polygon?



Each side = $72 \div 36 = 2\text{cm}$ long

Therefore each small square has area 4cm^2

The large square in the centre has area $10 \times 10 = 100\text{ cm}^2$

Each of the four "points" has area $4 \times 4 = 16\text{ cm}^2$

Total area = $100 + 4 \times 16 = \mathbf{164\text{ cm}^2}$