They'll never know

Pierre has been given a Computer-aided design device which can be programmed to draw lines as it moves over a sheet of paper.

The device is given its instructions as:

Go forward …. mm

Turn ….. º (the device does not move forward but turns on the spot towards the left)
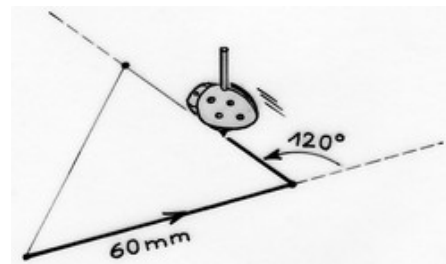
Repeat ….. times

Some examples include:

- to draw an equilateral triangle of sides 6cm, you would programme:

Repeat 3 times (Go forward 60mm and then turn through 120º)

- to draw a square of side 6 cm, you would programme:

Repeat 4 times (Go forward 60mm and then turn through 90º).

Pierre wants to draw a circle of radius 10 cm. He thinks that if he draws a regular hectogon, a polygon of 100 sides, then no-one could tell the difference between that and a circle

Write a programme that Pierre could use to draw the hectogon.