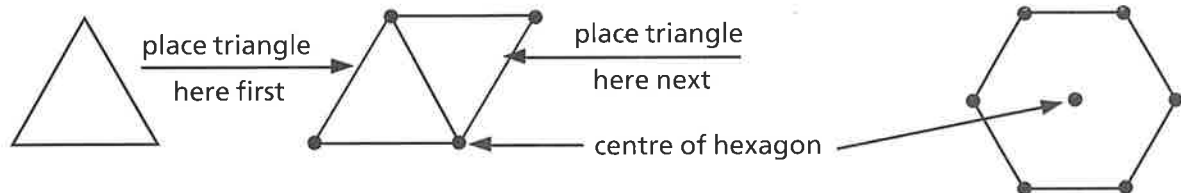


Polygons

- Follow these instructions to draw a **hexagon** on a sheet of paper.

Step 1: Make an equilateral triangle from card. Make each side 5cm long.



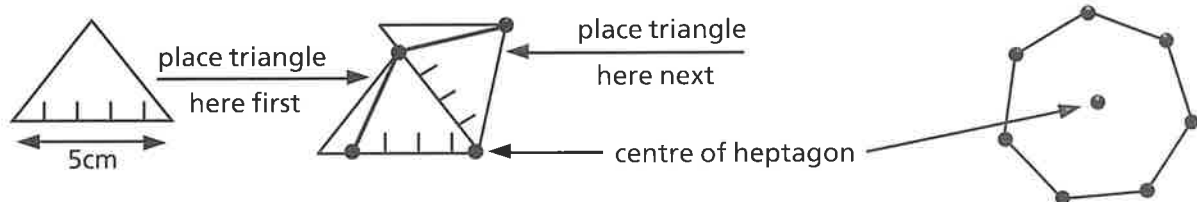
Step 2: Place the triangle on a sheet of paper with one side horizontal. On the paper, mark a dot at each corner.

Step 3: Join the two outer dots by a straight line. The third dot is the centre.

Step 4: Move the triangle round the centre. At each new position join the outer dots. A hexagon is created.

- Follow these instructions to draw a **heptagon** on a sheet of paper.

Step 1: Make an isosceles triangle from card. Make the sides 5cm, 4cm and 4cm long.



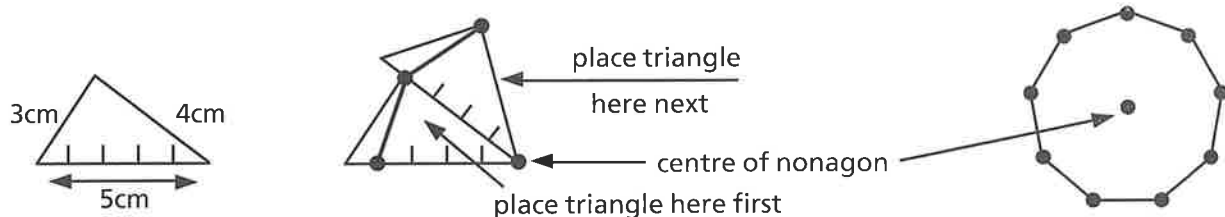
Step 2: Place the triangle on a sheet of paper with the 5cm side horizontal. On the paper, mark one dot 4cm along the 5cm side and another dot at the corner.

Step 3: Join the two outer dots by a straight line. The third dot is the centre.

Step 4: Move the triangle round the centre. At each new position join the outer dots. A heptagon is created.

- Follow these instructions to draw a nine-sided polygon, called a **nonagon**, on a sheet of paper.

Step 1: Make a right-angled triangle from card. Make the sides 3cm, 4cm and 5cm long.



Step 2: Place the triangle on a sheet of paper with the 5cm side horizontal. Mark one dot 4cm along the 5cm side and another dot at the corner. The third dot is in the centre.

Step 3: Move the triangle round the centre. At each new position join the outer dots. A nonagon is created.

Use these methods and your teacher's ideas to create your own designs.