

## Draw an equilateral curve heptagon.

The famous shape of the fifty pence coin is known as an equilateral curve heptagon. It has seven sides, all of which have a curve so it rolls.

It may look simple but this is a tricky shape to draw. Follow the instructions below to draw your own equilateral curve heptagon.

### You will need:

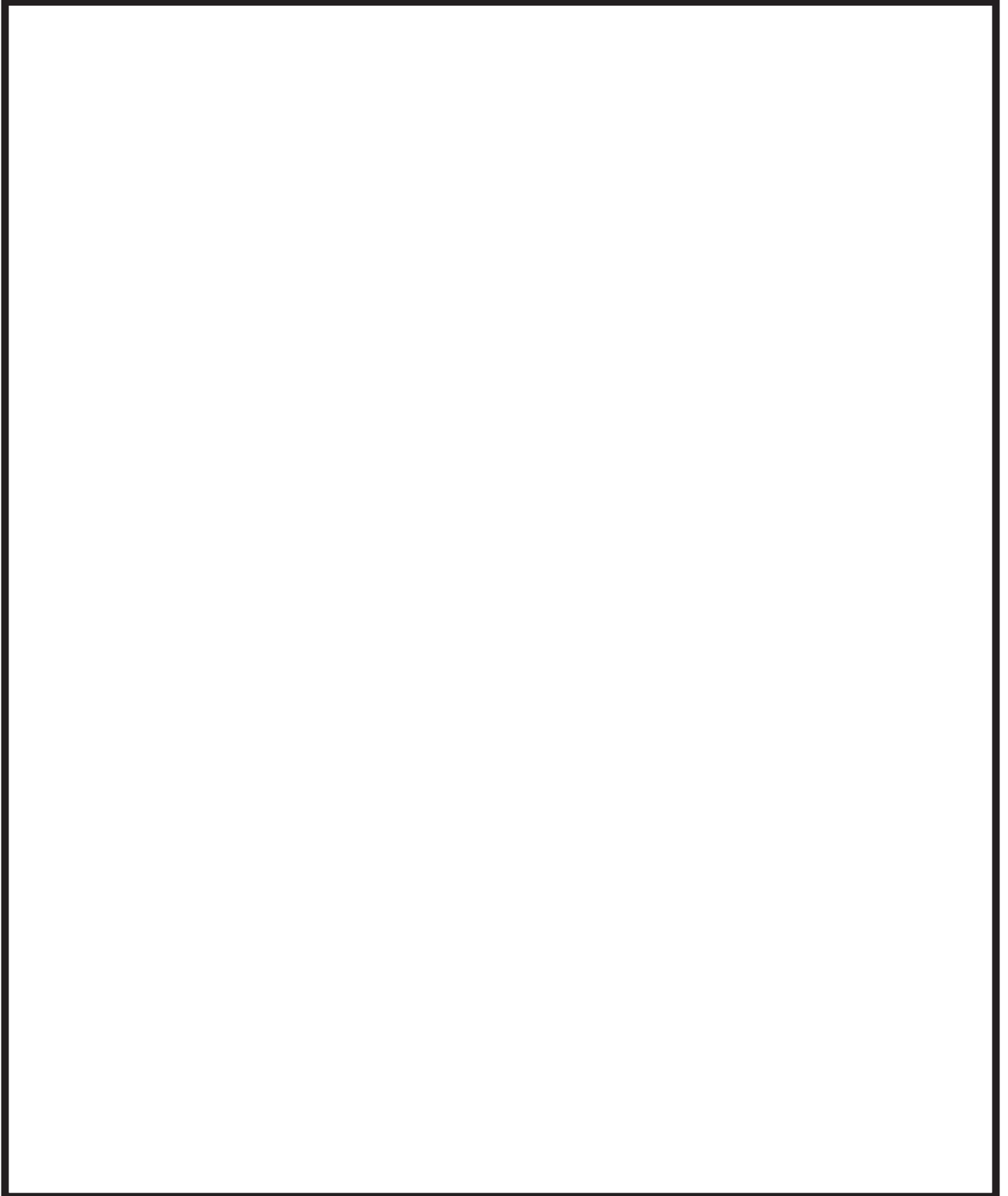
- A compass
- A protractor
- A ruler
- A pencil



- Draw a line 8cm long. Label the left end of the line X and the right end Y, then mark the centre of the line O
- Draw a parallel line 3cm above and label the left of this line P and the right end Q
- Line the centre of your protractor up with O and then mark every  $51\frac{3}{7}^\circ$
- Join each of your points up with the centre O
- Label each of your lines A to G in a clockwise direction
- Set your compass to 6cm
- Put the point of your compass where your line A crosses your line PQ, then draw a curve between your lines E and D
- Next put the point of your compass on your line E and draw a curve between A and B
- Repeat this with line D and continue until you have completed your shape
- When you have finished, rub out your connecting lines to leave you with your equilateral curve heptagon



**Draw your equilateral curve heptagon in the space below**





Check your finished results against the diagram below

