# GCSE Maths homework sheet (higher)    Week 8

Remember that you should do the foundation homework sheet as well.
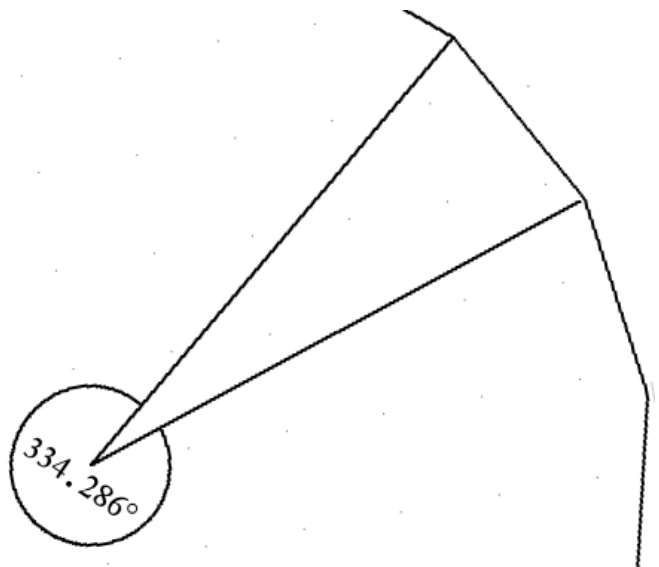
Diagrams and images on this sheet **are *not* accurately drawn**

**1.** The basic shape of a fifty pence piece is a heptagon.

    a. What is the internal angle of a heptagon? Show all your working. (3)



**2.** A regular polygon has an exterior angle of 40°

What is the mathematical name of the polygon?

Show all of your working. (3)

3. The diagram on the right shows **part** of a polygon.

It shows the centre and some of the sides.

It also shows an *approximate* reflex angle at the centre.

    a. How many sides does the polygon have?

    b. What is the internal angle?

    c. What is the external angle?

(4)



334.286°

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Multiply your marks by 10 to get a percentage. Write the percentage here: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . %