(i)   Take each of the three triangles on the handout, cut them out and locate the circumcentre of each without drawing any construction lines.

(ii)   In triangle *T1,* what can you say about the size of all of the angles?

(iii)   In relation to triangle *T1,* where is the circumcentre located?

(iv)   Do you think this will be the case for all triangles of this type?

(v)   What type of triangle is *T2?*

(vi)   What name is given to the side opposite the 90° angle?

(vii)   In relation to triangle *T2,* where is the circumcentre located?

(viii)   Do you think this will be the case for all triangles of this type?

(ix)   What name is given to the largest angle in *T3?*

(x)   Could you locate the circumcentre of *T3?*

(xi)   Give a reason for your response to the previous question?

(xii)   Do you think this will be the case for all triangles of this type?

(xiii)   Formulate a conjecture to indicate where the circumcentre of any triangle is located?

T2

T1

T3