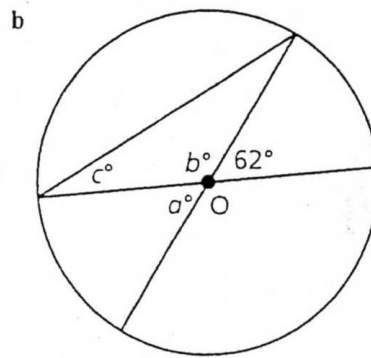
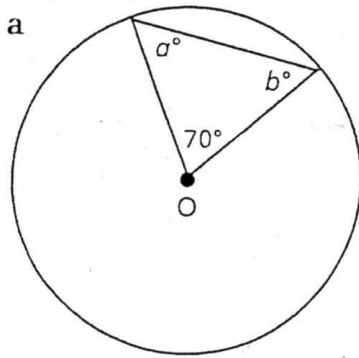


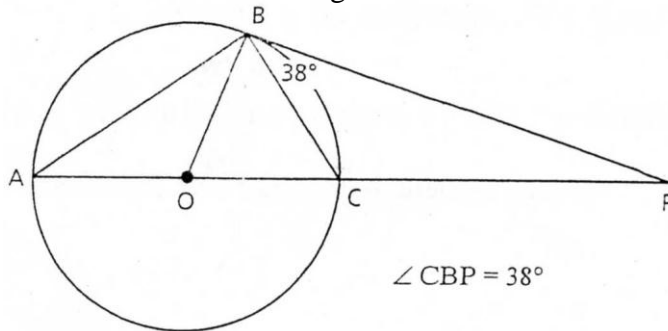
# National 5 Homework : 1 year course

## Properties of a Circle

1. Calculate the size of the angles marked a, b and c in each diagram.



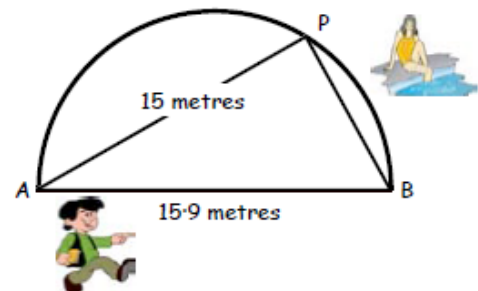
2. In the diagram PB is a tangent to the circle. Calculate the size of angle BAC.



3. A swimming pool, in the shape of a semi-circle, has Diameter 15.9 metres.

Donald swam from A to P.  
Sarah swam from P to B.

How much further had Donald travelled than Sarah?



4. Sophie built a small tower, made of bricks, in her back garden. On top of it she fitted a large glass light-bulb holder.

The diagram shows it as part of a circle.

Centre, C, is 20 centimetres above the top of the wall.

Find the total height of the structure, H.

