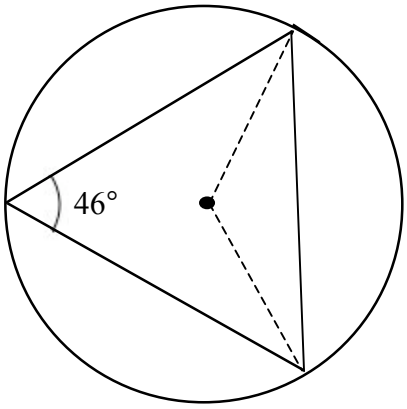
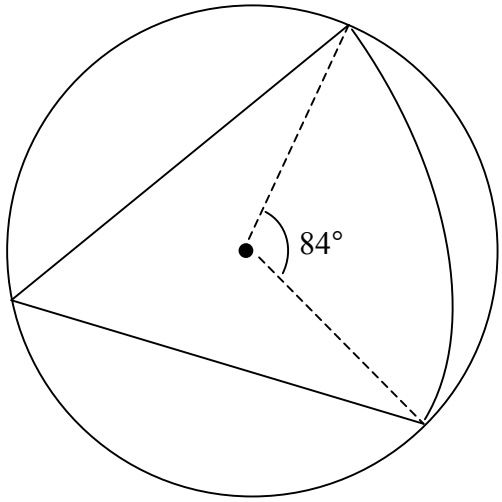
Tall Buildings
Worksheet 2

<u>Activity 2</u>
The Burj al Arab is shown below:

The height of this building is known to be 321 m to the spire, and 210 m to the roof.

1. The base of the building is a curved wedge shape. However, here it has been simplified to a triangle shape. Circle theorems help us to be able to calculate the area of the base to 3 s.f.



Given that the radius of this circle is 40 m, find the area of the base.

2. Since the shape of the building is actually a curved wedge, the length of the curved side is wanted. Use the circle below of radius 40 m to find the circumference of the curved section.