1. Find: a) the length of the minor arc
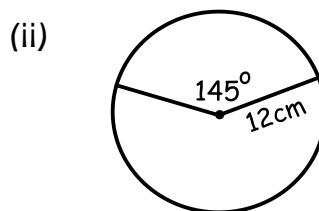   b) the length of the major arc
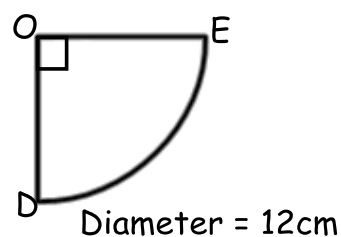
(i)

75° 8.1mm

(ii)

145° 12cm
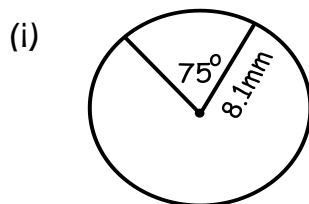
2. In the diagrams O is the centre of a circle. Calculate the area of each sector.

a)

O ___8cm___ B
36°
A

b)

O   E

D
Diameter = 12cm
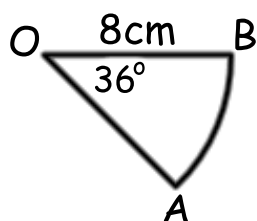
3. Calculate the area of the shaded section.
   OA = 10cm, OB = 12cm.

B
A
72°
O   D
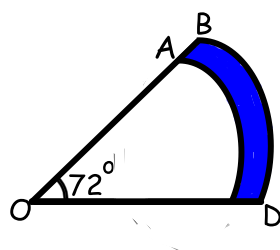
4. Calculate the angle x^0 for each

(i)

A   B
x^0
5cm
O

Minor arc AB = 12cm

(ii)

Q
P
x^0 2cm
O
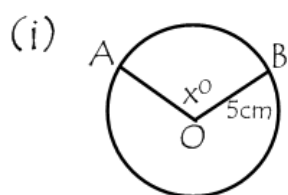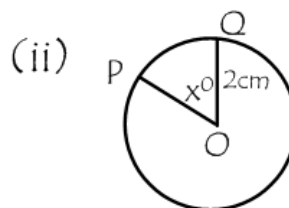
Area of major sector POQ

= 10.65cm^2