Lesson \# 34
Area of a Sector

In a circle, the ratio of the measures of two central angles is equal to the ratio of the areas of the two sectors formed.

Where have we seen this before???? Lesson.....

example 2:


Central angle?
$D=2 m$



## Team Names:

In the figure on the right, the area of the smaller disc is $452.16 \mathrm{~cm}^{2}$, the circumference of the larger disc is 125.6 cm and the central angle AOB measures $40^{\circ}$.
a) Calculate the perimeter of the shaded region.

b) Calculate the area of the shaded region.

