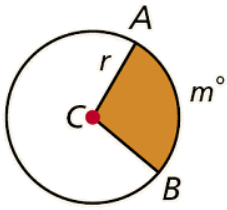
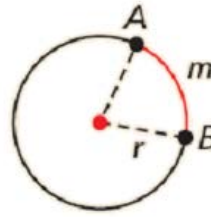


Geometry: 11-3 Notes

Area of a sector of a circle:



Arc length:



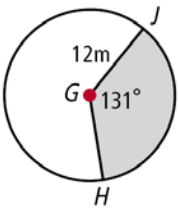
Area of a Segment of a circle:



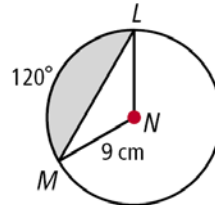
area of segment = area of sector – area of triangle

Examples:

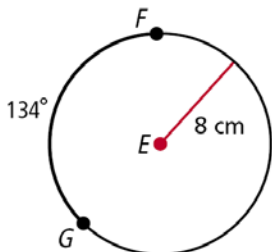
1. Find the area of sector HGJ. Give answers in terms of π and rounded to the nearest hundredth.



2. Find the area of segment LNM in simplest form and round to the nearest hundredth.

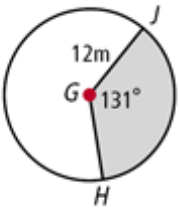


3. Find the length of arc FG. Give answers in terms of π and rounded to the nearest hundredth.

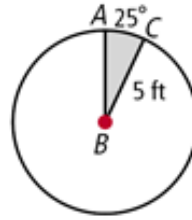


Group Work Examples:

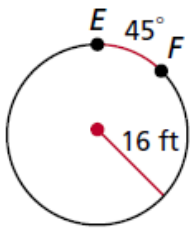
1) Find the area of sector HGJ.



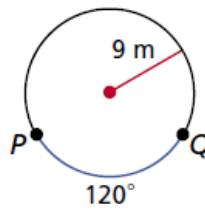
2) Find the area of sector ABC.



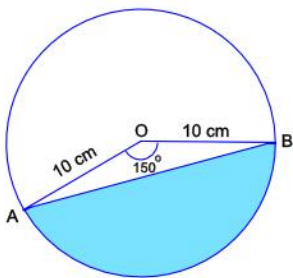
3) Find the length of \widehat{EF} .



4) Find the length of \widehat{PQ} .



5) Find the area of segment AOB in simplest form and round to the nearest hundredth.



6) Find the area of the shaded segment in simplest form. And round to the nearest hundredth.

